

FM/AM STEREO RECEIVER

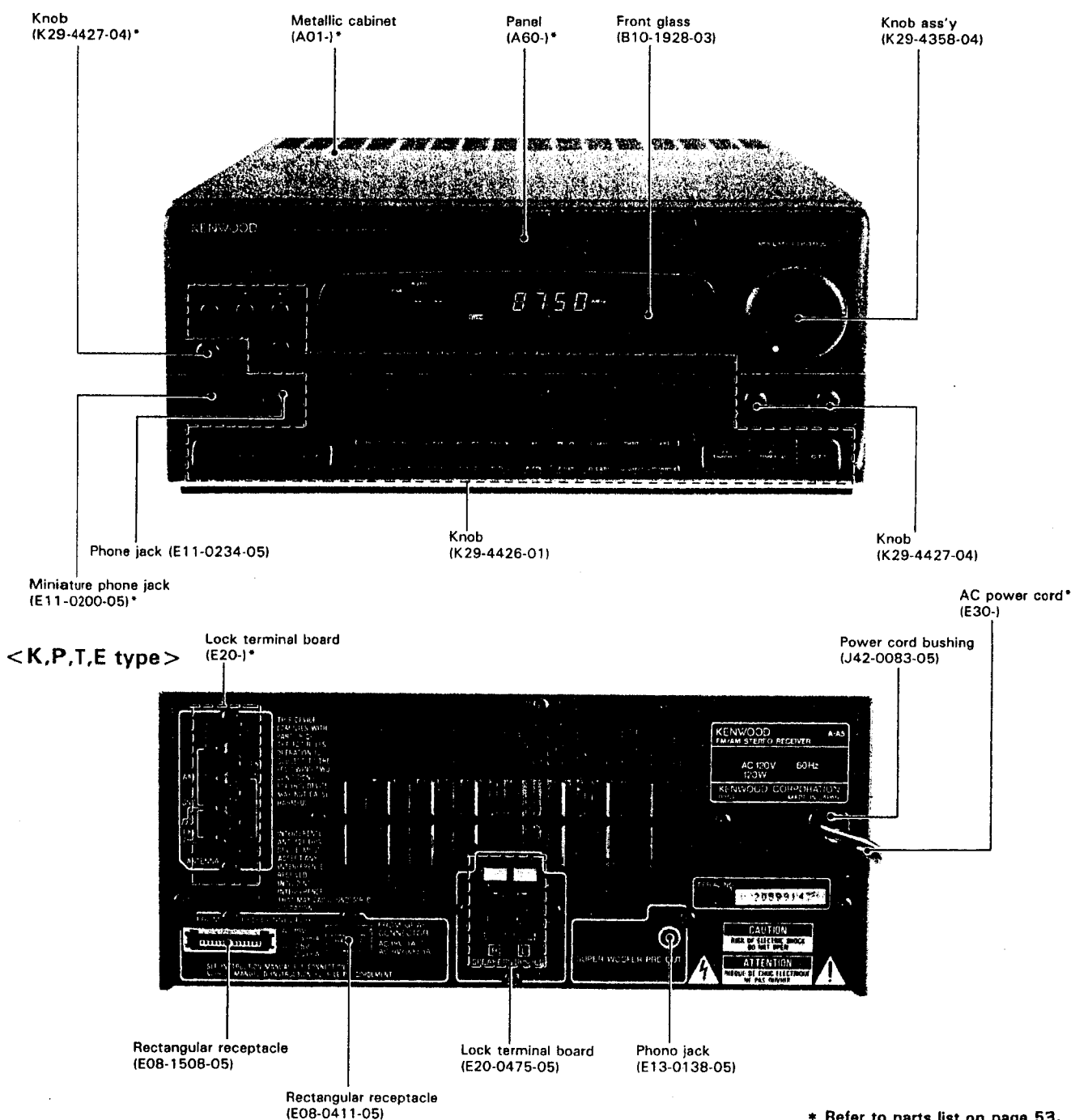
A-A5/A5L

SERVICE MANUAL

(COMPACT HIFI SYSTEM UD COMPONENT SYSTEM UD-500/500M)

KENWOOD

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B51-4600-00(MC) 4114

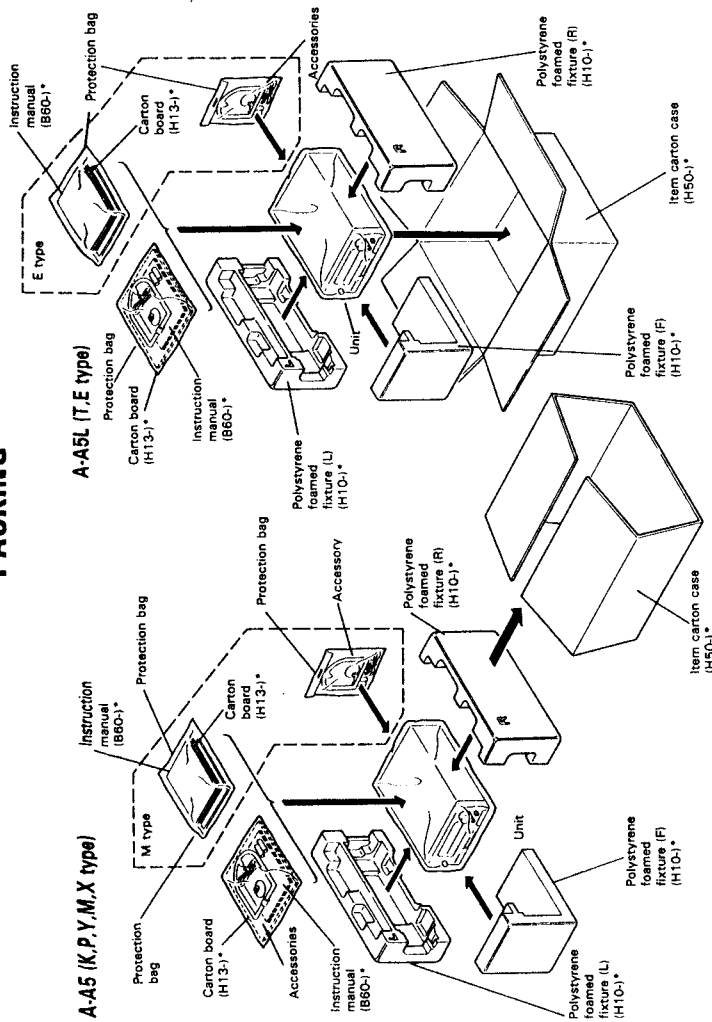


* Refer to parts list on page 53.
Photo is A-A5.

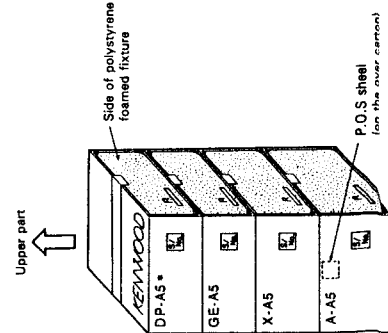
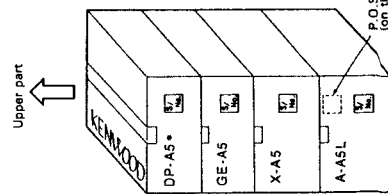
[A-A5 : K,P,Y,M,X type
A-A5L: T,E type]

Refer to the SERVICING NOTES on page 2 before repair.

PACKING

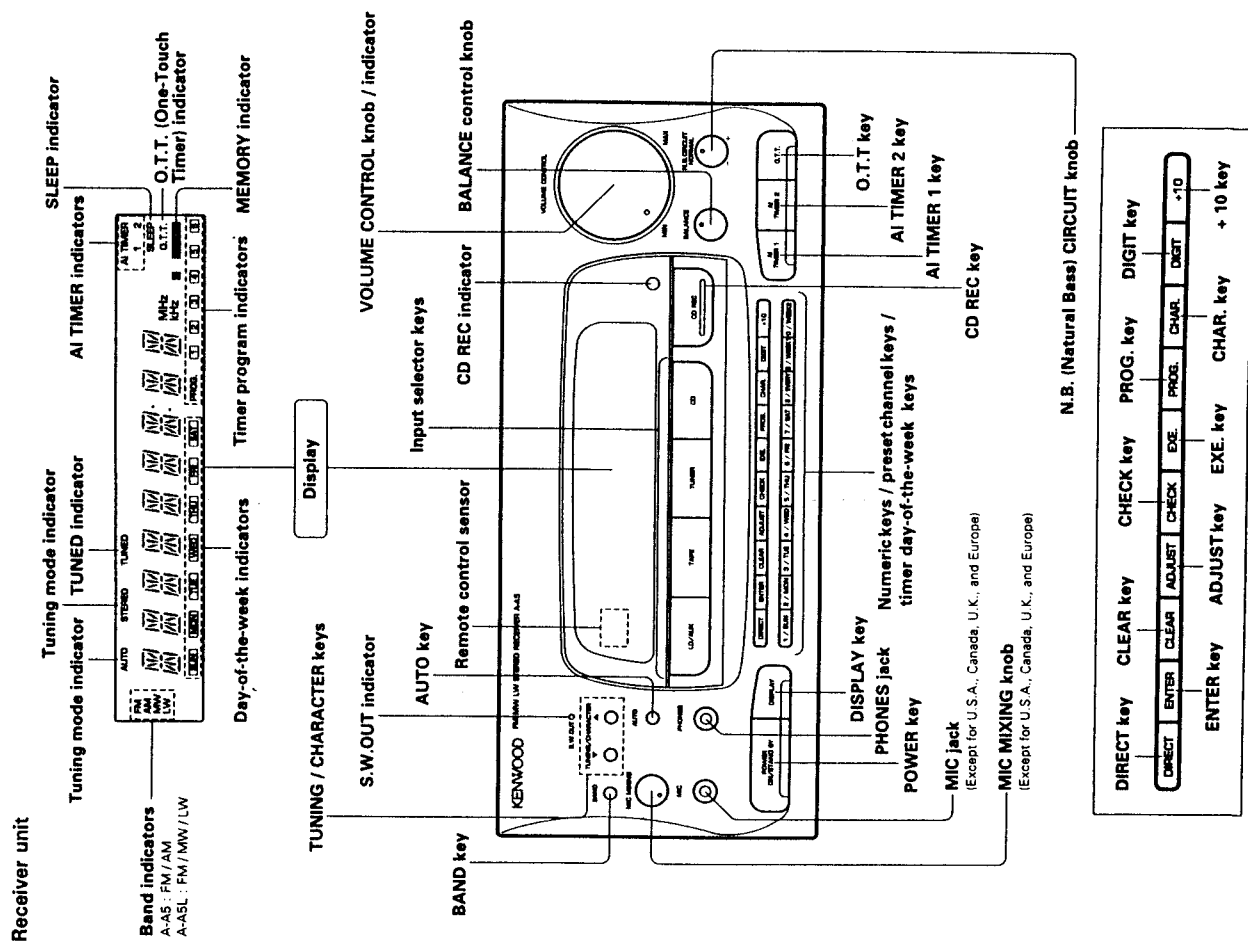


* Refer to parts list on page 53.



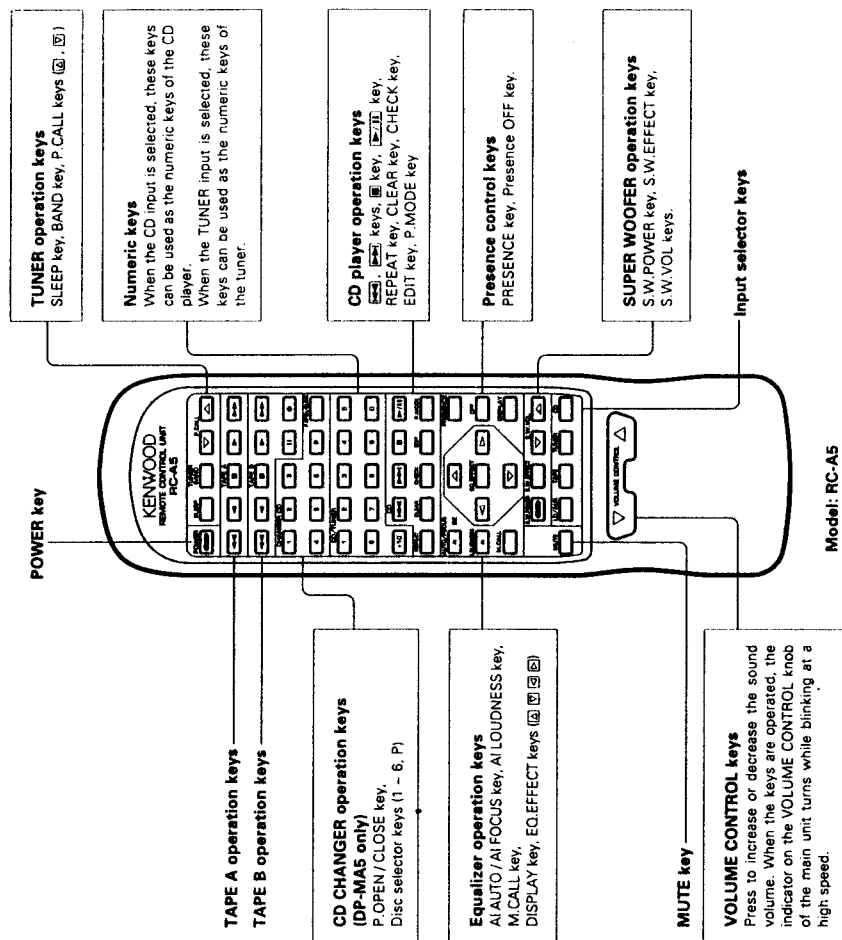
*UD-500: DP-A5
UD-500M: DP-MA5

CONTROLS & INDICATORS



CONTROLS & INDICATORS

Remote control unit

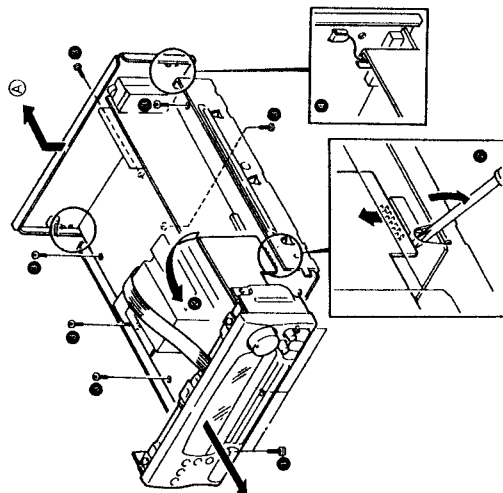


DISASSEMBLY FOR REPAIR

<K,P,T,E type>

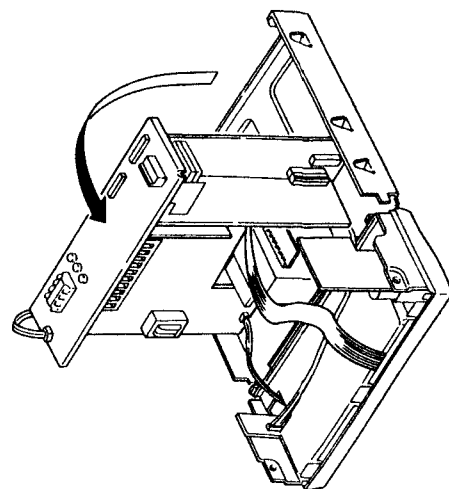
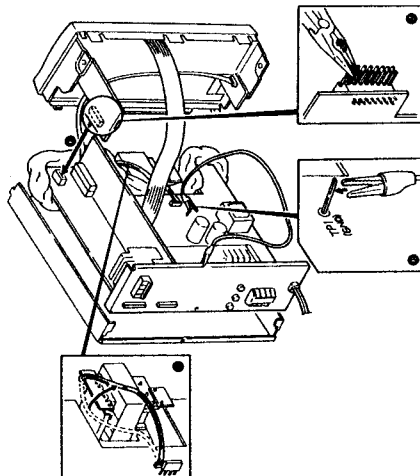
1) Removing the audio main unit (X09: A/6)

1. Remove the three screws (A), then remove the front panel while disconnecting the connector in the direction of arrow (B).
 2. Remove the six screws (C), then remove the audio main unit in the direction of arrow (D).
- Note: When installing the audio main unit, insert the claws as shown in the figure (E).



2) How to check the audio main unit (X09: A/6)

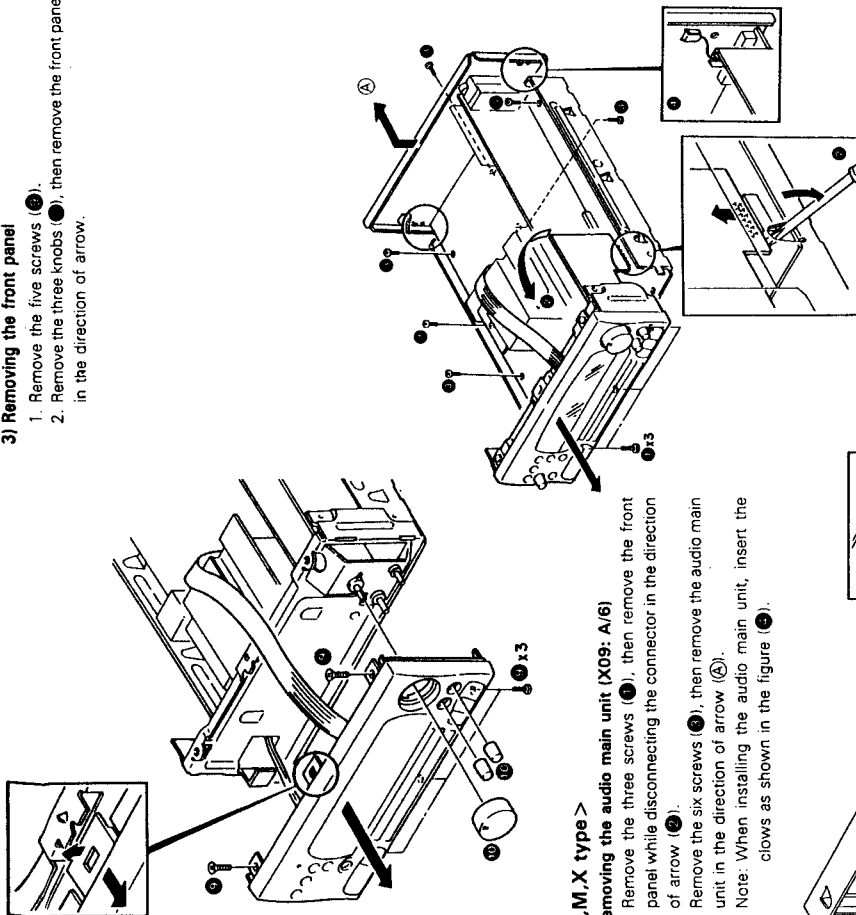
1. Stand the set with the right side upward, then move the audio main unit to parallel while moving the secondary parallel lead as shown in the figure (F).
 2. Insert the connector of volume unit (X09: B/6) to the connector of audio main unit (G).
- Note: When the pins of connector is bent, correct them as shown in the figure (H).
3. Lay a cloth between the audio main unit and transformer, and connect the board ground TPI to the rear panel (I).



4. In case check the main unit only, be able to check without connect the front panel side.
Stand the audio main unit with the rear panel side upward as shown in the figure.

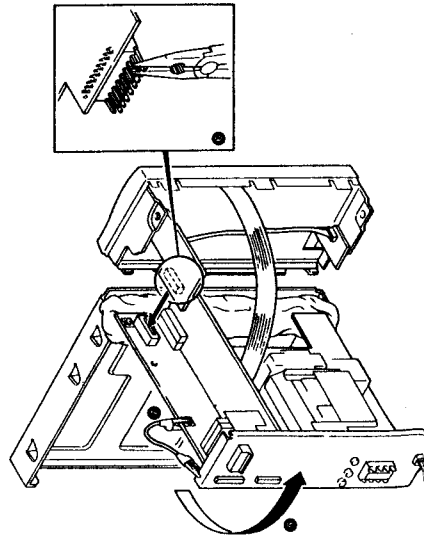
DISASSEMBLY FOR REPAIR

- 3) Removing the front panel
1. Remove the five screws (●).
 2. Remove the three knobs (●), then remove the front panel in the direction of arrow.



<Y,M,X type>

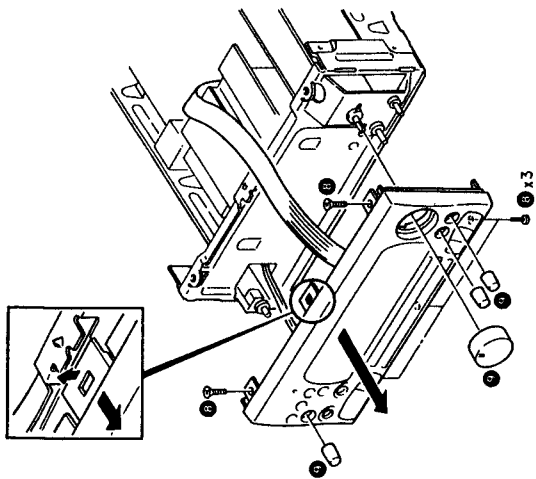
- 1) Removing the audio main unit (X09: A/6)
1. Remove the three screws (●), then remove the front panel while disconnecting the connector in the direction of arrow (A).
 2. Remove the six screws (●), then remove the audio main unit in the direction of arrow (A).
- Note: When installing the audio main unit, insert the claws as shown in the figure (●).



- 2) How to check the audio main unit (X09: A/6)
1. Stand the set with the right side upward, then move the audio main unit in the direction of arrow (A).
 2. Insert the connector of volume unit (X09: B/6) to the connector of audio main unit.
- Note: When the pins of connector is bent, correct them as shown in the figure (●).
3. Lay a cloth between the audio main unit and transformer, and connect the board ground as shown in the figure (●).

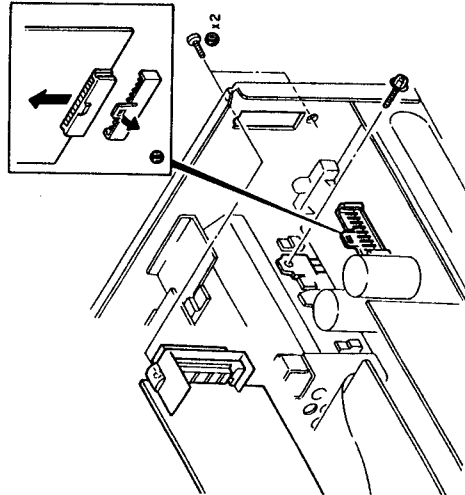
DISASSEMBLY FOR REPAIR

- 3) Removing the front panel
1. Remove the five screws (●).
 2. Remove the four knobs (●), then remove the front panel in the direction of arrow.



4) Removing the power transistor

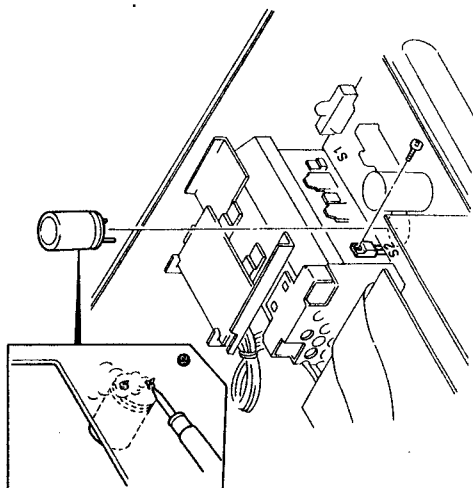
1. Removing the two screws (●), then remove the tuner unit (X14: C/3).
2. Remove the X09: E/6 unit as shown in the figure (●).
3. Remove the screws, then remove the power transistor.



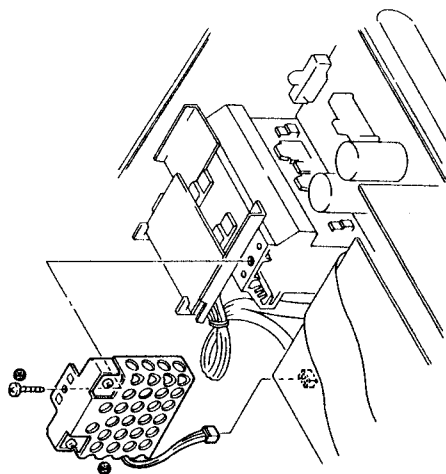
A-A5/A5L

DISASSEMBLY FOR REPAIR

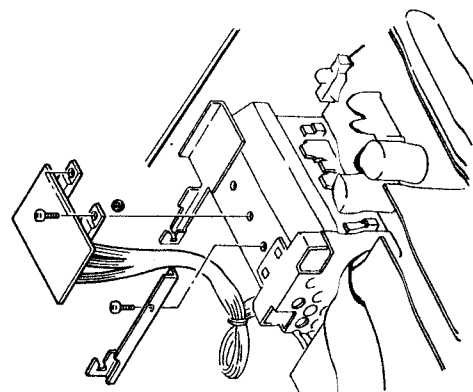
- 5) Removing the temperature compensating switch (S2)
1. Remove the tuner unit (X14: C/3) and X09: E/6 unit, then remove the capacitor (C90) (●).
 2. Remove the one screw, then remove the temperature compensating switch.



- 6) Removing the fan
1. Remove the one screw (●).
 2. Remove the fan (●).

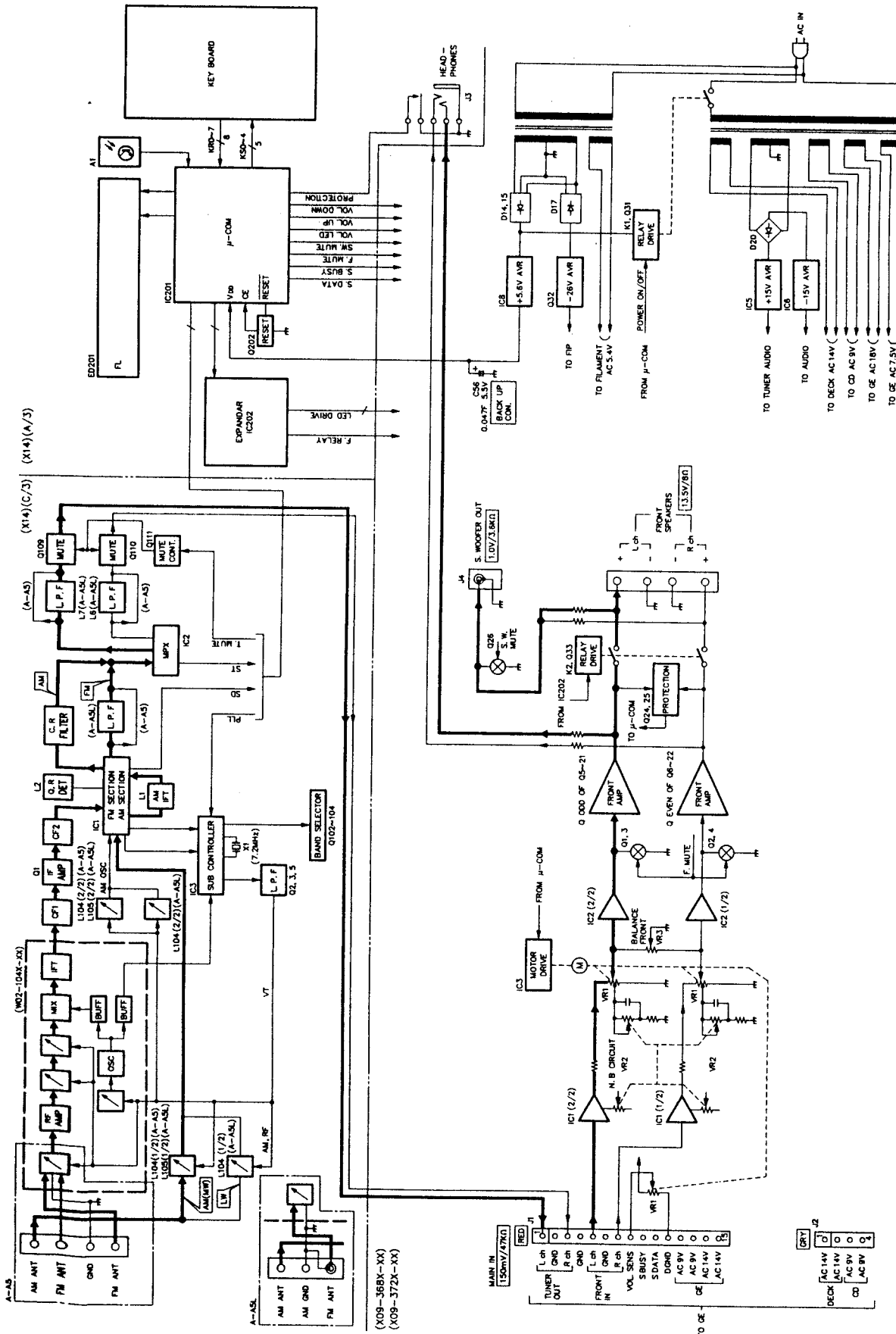


- 7) Removing the X09: C/6 unit
1. Remove the three screws, then remove the X09: C/6 unit. (●).



BLOCK DIAGRAM

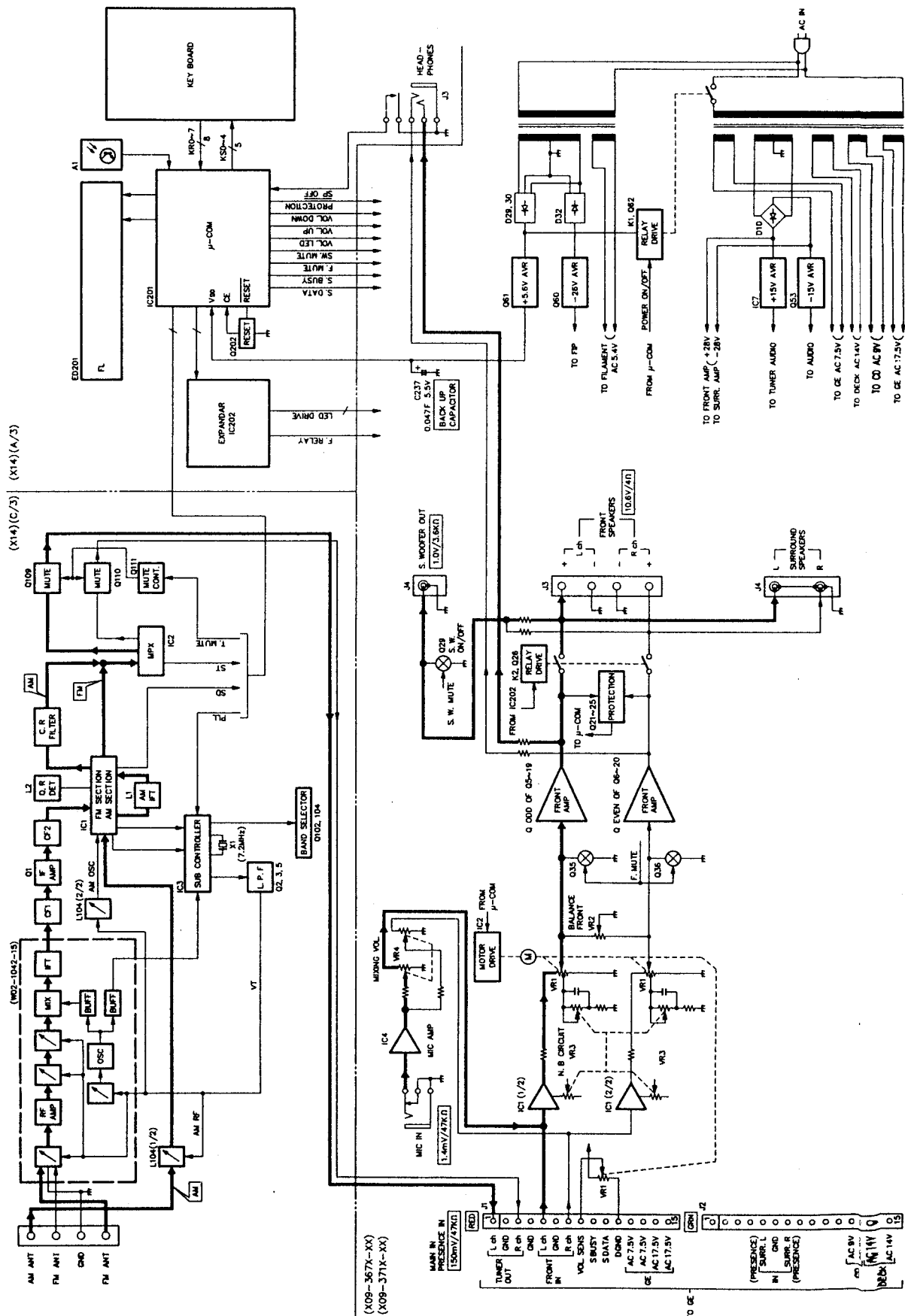
<K,P,T,E type>



A-A5/A5L

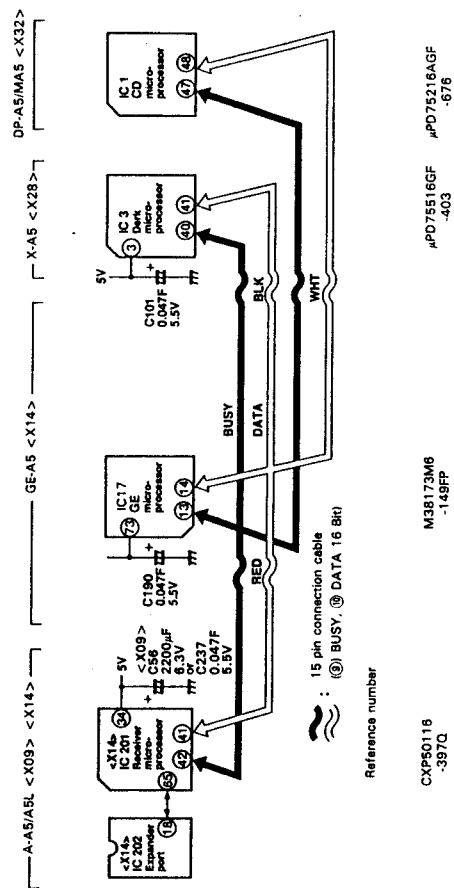
BLOCK DIAGRAM

<Y,M,X type>



CIRCUIT DESCRIPTION

1. Microprocessor and back-up condenser of this unit (16-bit serial transmission is supported like the UD-100/90/70, unlike the UD-7/9 series (8 bits).)

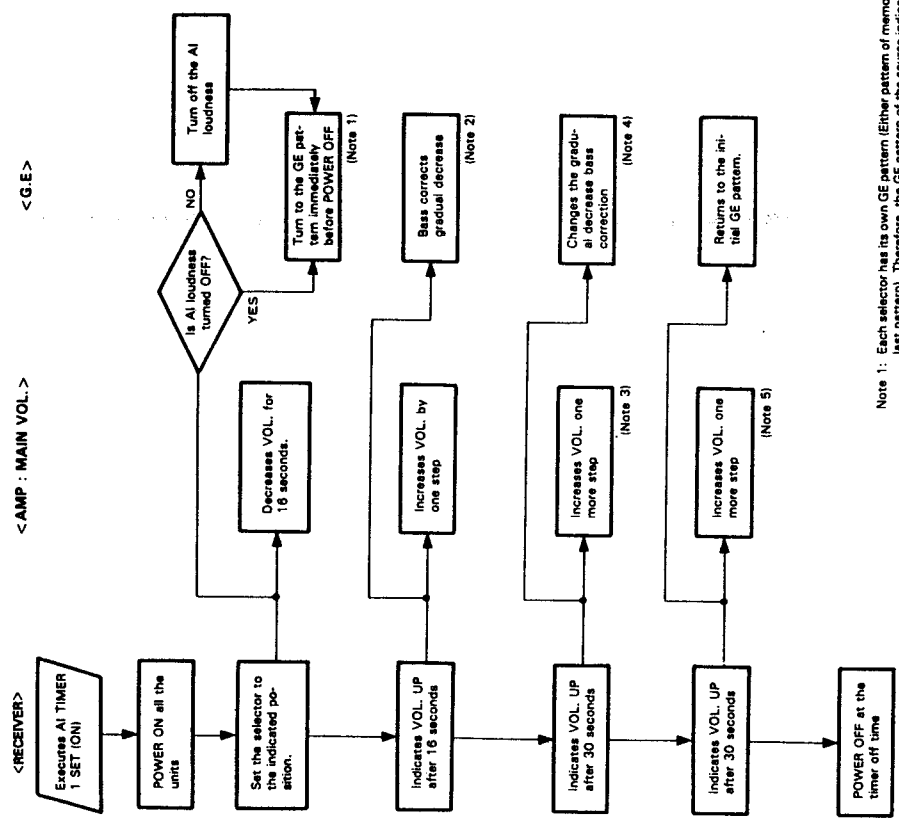


2. Microprocessor initialization (reset) and test mode

	A-A5/A5L	GE-A5	X-A5	DP-A5/MA5
	RECEIVER microprocessor (X14) IC201 CXP50116-397Q	GE microprocessor (X14) IC17 M38173M6-149FP	DECK microprocessor (X28) IC3 μ PD75516GF-403	CD microprocessor (X32) IC1 μ PD75218AGF-676
Backup capacitor	(X09) C56 2200 μ F 6.3 V (K.P.T.E type) C237 0.047 F 5.5 V (Y,M.X type)	(X14) C190 0.047 F 5.5 V	(X28) C101 0.047 F 5.5 V	None
Initialization (reset)	Hold down the ENTER key, and insert the AC plug into the outlet.	Hold down the MEMORY key, and turn AC on.	Turn AC off in the CRILS test mode (see below).	Turn AC off again.
Test mode	Operation	Hold down the CHARAC-TER key, and insert the AC plug into the outlet.	Short test pin ⑧ and ⑦, and insert the AC plug into the outlet.	Short-circuiting the test pins CN2 (1 pin and 2 pin)
	Release	Remove the AC plug from the outlet.	Press the PAUSE key.	Release-AC off
	Contents	① All fluorescent displays light. For details, see the service manual for each model.		

CIRCUIT DESCRIPTION

4-3. Flow chart of AI TIMER 1



Note 1: Each selector has its own GE pattern (Either pattern of memory and the pattern). Therefore, the GE pattern of the source indicated by the pattern is selected.

Note 2: Shifts to the pattern, which has the loudness effect (There are two patterns of the gradual decrease bass correction (AI TIMER 1)).

Note 3: The three steps of increase volume can be selected.

Note 4: Decrease correction volume is lowered in accordance with VR UP.

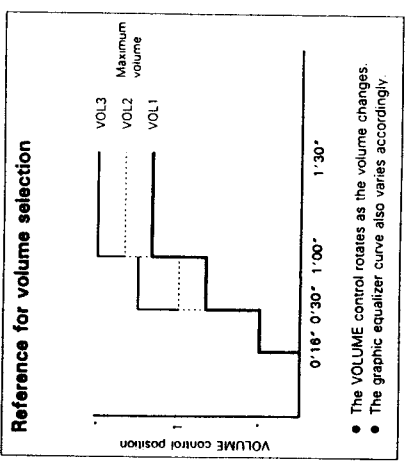
Note 5: Same as Note 3. However, the VR position is limited at the position of 12.

4-4. Function description

- a) AI TIMER 1
 - With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 1 is activated if the AI TIMER 1 is set to ON (the FL indicator is lit).
 - When the AI TIMER 1 is turned ON, first playback starts with the minimum volume level, then the volume level is increased in three steps.
 - The third-step volume level (the maximum volume level) can be selected among the three types of the volume levels (VOL. 1-3). Each time the AI TIMER 1 key is pressed, the maximum volume level is changed in order from VOL. 1 to VOL. 3 and TIMER OFF setting cyclically.

① When the key is pressed with the AI TIMER 1 is OFF (FL indicator is not lit):
OFF → VOL. 1 → VOL. 2 → VOL. 3

② When the key is pressed in the volume setting mode (FL indicator is lit):
Example: When VOL. 2 is selected
VOL. 2 → VOL. 3 → OFF → VOL. 1



b) AI TIMER 2

- With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 2 is activated if the AI TIMER 2 is set to ON (FL indicator is lit).
- When the AI TIMER 2 is turned ON, if the disc is loaded in the CD player, the two tracks on the disc is played regardless whether the other source is set for play.
- Then, the playback source is changed to tuner automatically.
- Each time the AI TIMER 2 key is pressed, the timer setting is changed alternately.

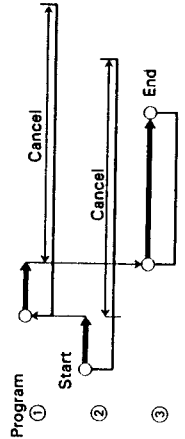
CIRCUIT DESCRIPTION

5. Timer program operation

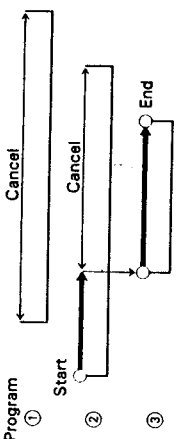
<When the program settings are registered within the same period>

- When the two or more program settings are to be started at the same time:
The program having the least number is activated and others will be cancelled.
- When the setting time for two or more programs differ:
First, the program with the earliest setting time is activated. Then, if the same mode (REC mode or PLAY mode) has been designated for the other program, the operation is changed to the program in which the same mode as the first one is designated and the end time for the above program will be cancelled. If another mode is set for other programs, the contents will be cancelled.

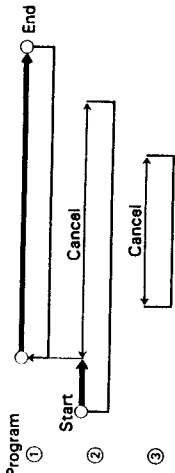
Example 1: When the operation modes for all three programs are set to PLAY:



Example 2: When the operation modes for programs 2, 3 are set to PLAY and that for the program 1 is set to REC:



Example 3: When the operation mode for programs 1, 2 are set to REC and that for program 3 is set to PLAY:



The program end is determined by the OFF time of the program which is activated at the last.

CIRCUIT DESCRIPTION

10. Test frequency

CH	TYPE	A-A5		A-A5L	
		K, P	Y, M (AM 10 kHz, FM 100 kHz step)	Y, M, X (AM 9 kHz, FM 50 kHz step)	T, E
1	FM	98.0 MHz	FM 98.0 MHz	FM 98.0 MHz	FM 98.0 MHz
2	FM	108.0 MHz	FM 108.0 MHz	FM 108.0 MHz	FM 108.0 MHz
3	AM	630 KHz	AM 630 KHz	AM 630 KHz	AM 630 KHz
4	AM	990 KHz	AM 990 KHz	AM 990 KHz	AM 990 KHz
5	AM	1440 KHz	AM 1440 KHz	AM 1440 KHz	AM 1440 KHz
6	AM	1610 KHz	AM 1610 KHz	AM 1602 KHz	AM 1602 KHz
7	AM	1700 KHz	FM 87.5 MHz	FM 87.5 MHz	LW 162 KHz
8	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 216 KHz
9	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 270 KHz
10	FM	89.1 MHz	FM 89.1 MHz	FM 89.1 MHz	FM 89.1 MHz
11	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 280 KHz
12	FM	90.0 MHz	FM 90.0 MHz	FM 90.0 MHz	FM 90.0 MHz
13	FM	106.0 MHz	FM 106.0 MHz	FM 106.0 MHz	FM 106.0 MHz
14	AM	530 KHz	AM 530 KHz	AM 531 KHz	AM 531 KHz
15	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 153 KHz
16~20	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz

11. Expansion port IC: CX-7991 (X14: IC202)

Pin functions

Pin No.	Pin name	I/O	Name	Description
1	P1	O	FRONT RLY	Front speaker relay
2	P2	O	SURR. RLY	S4ch speaker relay
3	P3	O	PRESE RLY	F4ch speaker relay
4	P4	O		No used (Open)
5	P5	O	VFIX	No used
6	P6	O	CDREC	CD REC LED
7	P7	O	SWF	SUPER WOOFER LED
8	P8	O	ALC	No used
9	P9	O		No used (Open)
10	VSS			GND
11	P10	O		No used (Open)
12	P11	O		No used (Open)
13	P12	O		No used (Open)
14	S0	O		No used (Open)
15	SET	I		+ 5 V power supply
16	RESET	I		Reset signal input
17	STB	I	ICLOAD	Strobe input
18	DATA	I	ICDATA	Data input
19	CLK	I	ICCLOCK	Clock input
20	VDD			+ 5 V power supply

Microprocessor: CPX50116-397Q (X14: IC201)

Pin functions

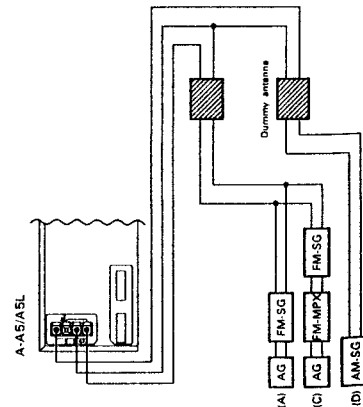
Pin No.	Pin name	I/O	Name	Description
1~18	S4-S21/PS0-PS3 P0-P3, P.0-P.3 115-110	O	Segment	Segment (h, c, d, g, f, b, a, q, i, j, k, n, o, p, l, m)
19~28	S22-S23/PS 7B, 117-110	O	G10 - G1	Grid 10 - 1
29~31	INT, TX, TEX		INT, TX, TEX	No used.
32	RST	I	RESET	Reset pin
33	NC		NC	No used.
34	Vdd		Vdd	+5 V power supply
35	P10	O	VOLD	Motor volume down
36	P11	O	VOLU	Motor volume up
37	P12	O	KS4	Key scan signal output (KS4)
38	P13	O	AMUTE	Amplifier mute
39	P80	O	SMUTE	Super woofer mute
40	P81	I	PROTECT	Protection detection
41	P82	I/O	SDATA	Serial communication DATA
42	P83	I/O	SBUSY	Serial communication BUSY
43	EC		EC	No used
44	PX0	I	BILINGUAL	No used
45	PX1	I	STEREO	Stereo signal detection
46	PX2	I	TUNED	SD signal detection
47	PA0	I	SPOFF	Head phone use detection
48	PA1	O	TMUTE	Tuner mute
49	PA2	O	MAIN	No used
50	PA3	O	SUB	No used
51~54	PF0 - PF3	I	KR0 - KR3	Key return signal input (KR0 - KR3)
55~58	PE0 - PE3	O	KS0 - KS3	Key scan signal output (KS0 - KS3)
59	PY0	O	VOLLED	Volume LED drive
60	PY1	O	MONO	Forced monaural output
61	PY2	I	CE	Chip enable signal input
62	PY3	I	REMIN	Remote control signal input
63	PD0	O	ICRST	Expansion port IC RESET
64	PD1	O	ICLOAD	Expansion port IC STROBE
65	PD2	O	ICDATA	Expansion port IC DATA
66	PD3	O	ICCLOCK	Expansion port IC CLOCK
67~70	PC0 - PC3	I	KR4 - KR7	Key return signal input (KR4 - KR7)
71	Vss		Vss	GND
72	XTAL		XTAL	Crystal oscillator input (4.19 MHz)
73	NC		NC	No used
74	EXTAL		EXTAL	Crystal oscillator input (4.19 MHz)
75	Vref		Vref	No used
76	Vtpp		Vtpp	-30 V power supply
77	S0PH0	O	POWER	Power ON/OFF signal output
78	S1PH1	O	DT	PLL IC (LM7001) DATA
79	S2PH2	O	CLK	PLL IC (LM7001) CLOCK
80	S3PH3	O	PCE	PLL IC (LM7001) STROBE

ADJUSTMENT

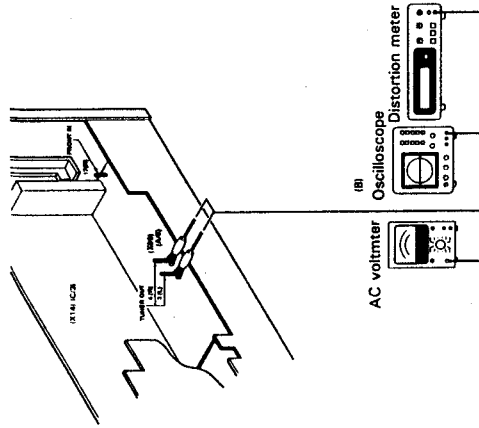
ADJUSTMENT

1. TUNER UNIT

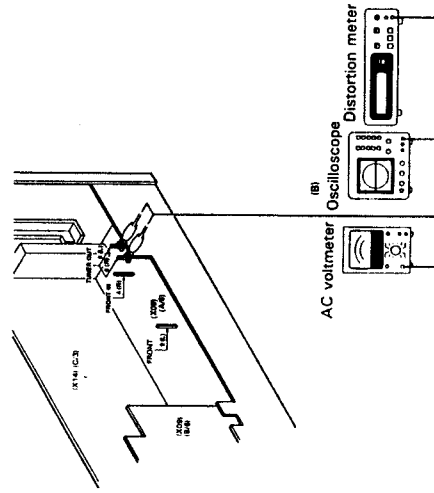
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
SELECTOR: FM							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz.275kHz dev (K.P.M.V.X type) 1kHz.40kHz dev (E.T type) 80dBu (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X14-)	AUTO or MONO 98.0MHz	L2 (X14-)	0V	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz.258.25kHz dev Pilot:17.5kHz dev (K.P.M.V.X type) 1kHz.40kHz dev Pilot:15kHz dev (E.T type) 80dBu (ANT input)	(B)	MONO 98.0MHz	IFT (X12-)	Minimum distortion	
3	SEPARATION	(C) 98.0MHz 1kHz.40kHz dev Pilot:15kHz dev Selector:L or R 80dBu (ANT input)	(B)	AUTO 98.0MHz	VR5 (X14-)	Minimum crosstalk	
4	TUNING LEVEL	(A) 98.0MHz 1kHz.275kHz dev (K.P.M.V.X type) 1kHz.45kHz dev (E.T type) 140dBu(ANT input) 750 180dBu(ANT input)300u	(B)	AUTO or MONO 98.0MHz	VR1 (X14-)	Adjust VR1 and stop at the point where ED201(TUNED) goes on.	
AM (MW) SECTION							
SELECTOR: AM (MW)							
(1)	TUNING LEVEL	(D) 1008kHz 400Hz.30% mod 75dBu(ANT input)	(B)	1008kHz	VR3 (X14-)	Adjust VR3 and stop at the point where ED201 (TUNED) goes on.	



(K,P,T,E type)



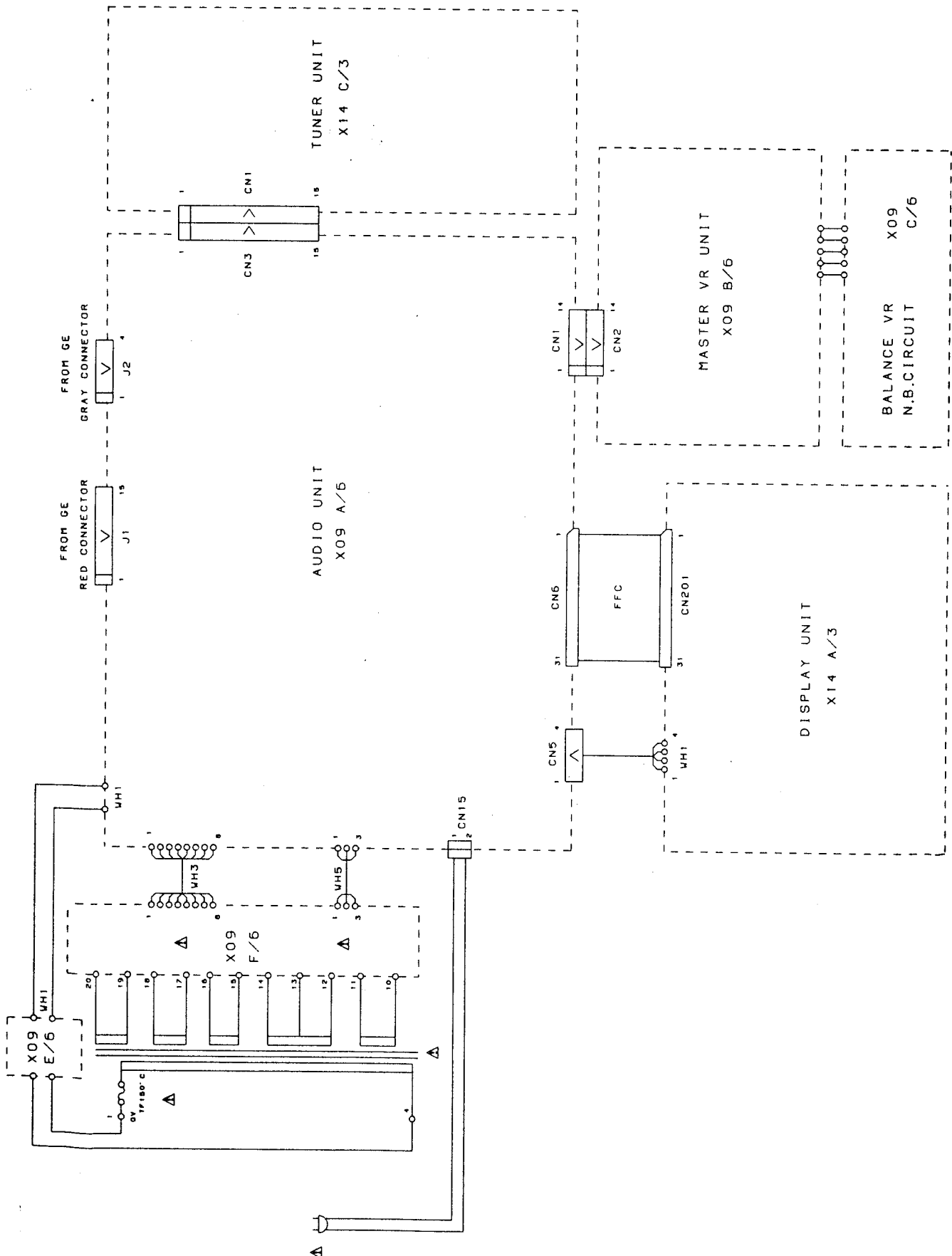
(Y,M,X type)



A-A5/A5L

WIRING DIAGRAM

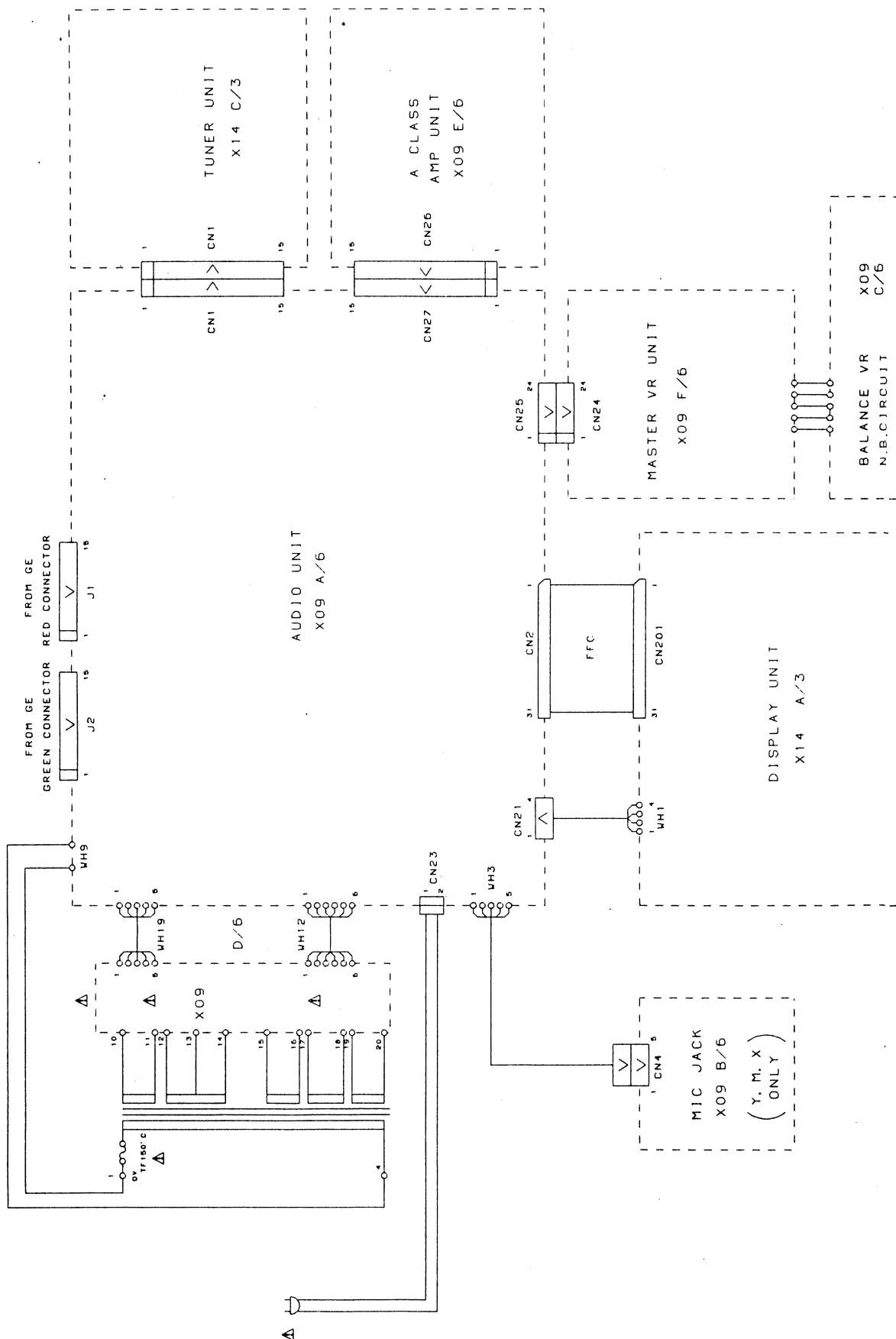
<K,P,T,E type>



A-A5/A5L

WIRING DIAGRAM

<Y,M,X type>



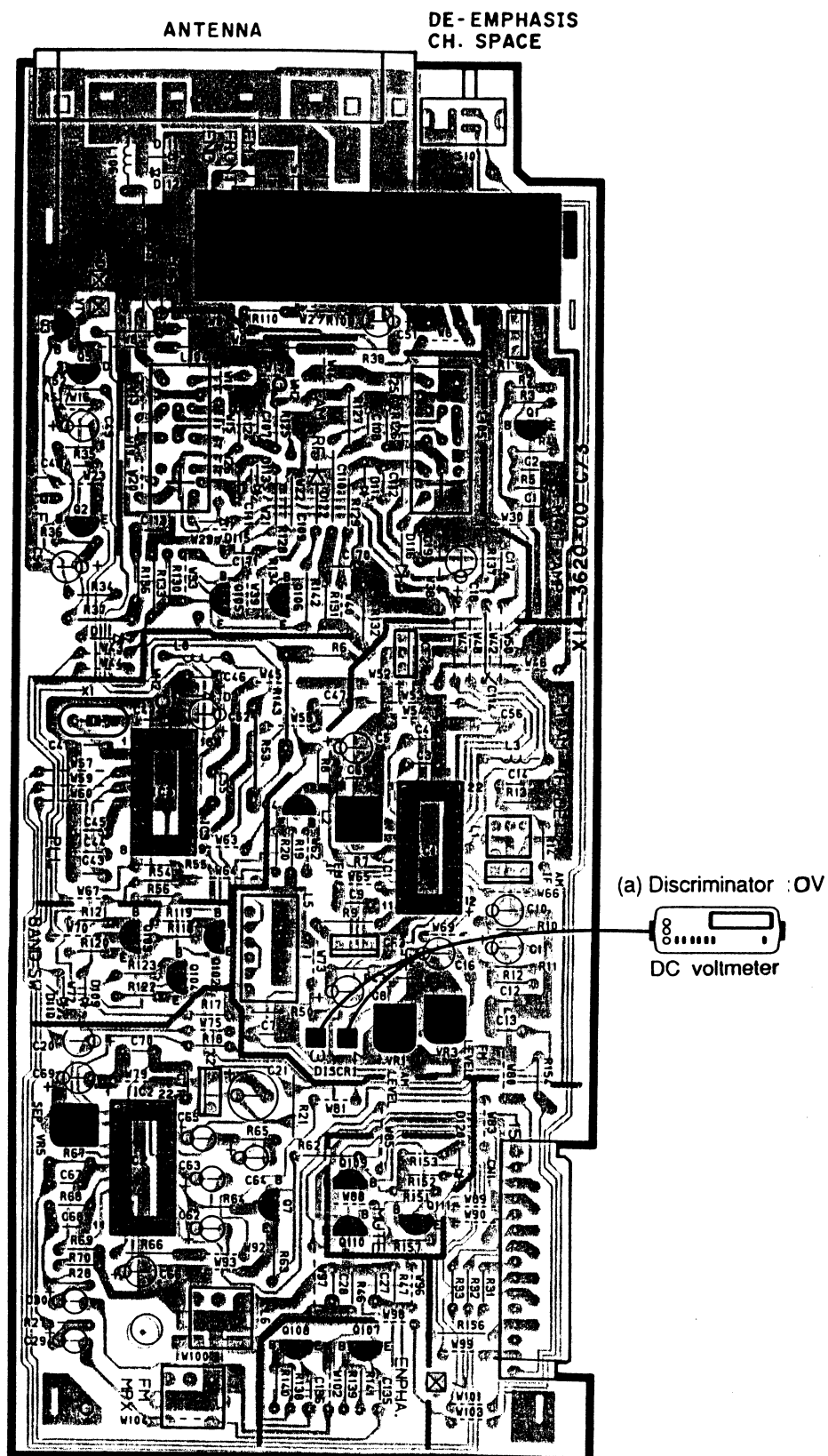
A

B

C

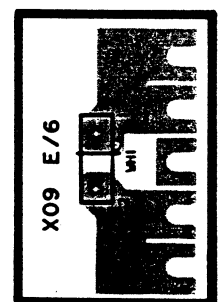
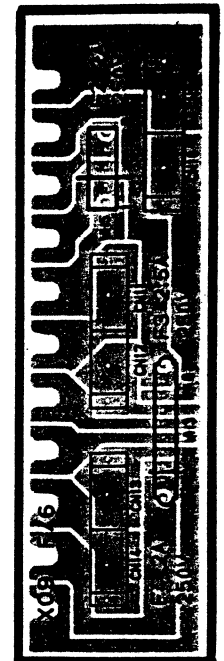
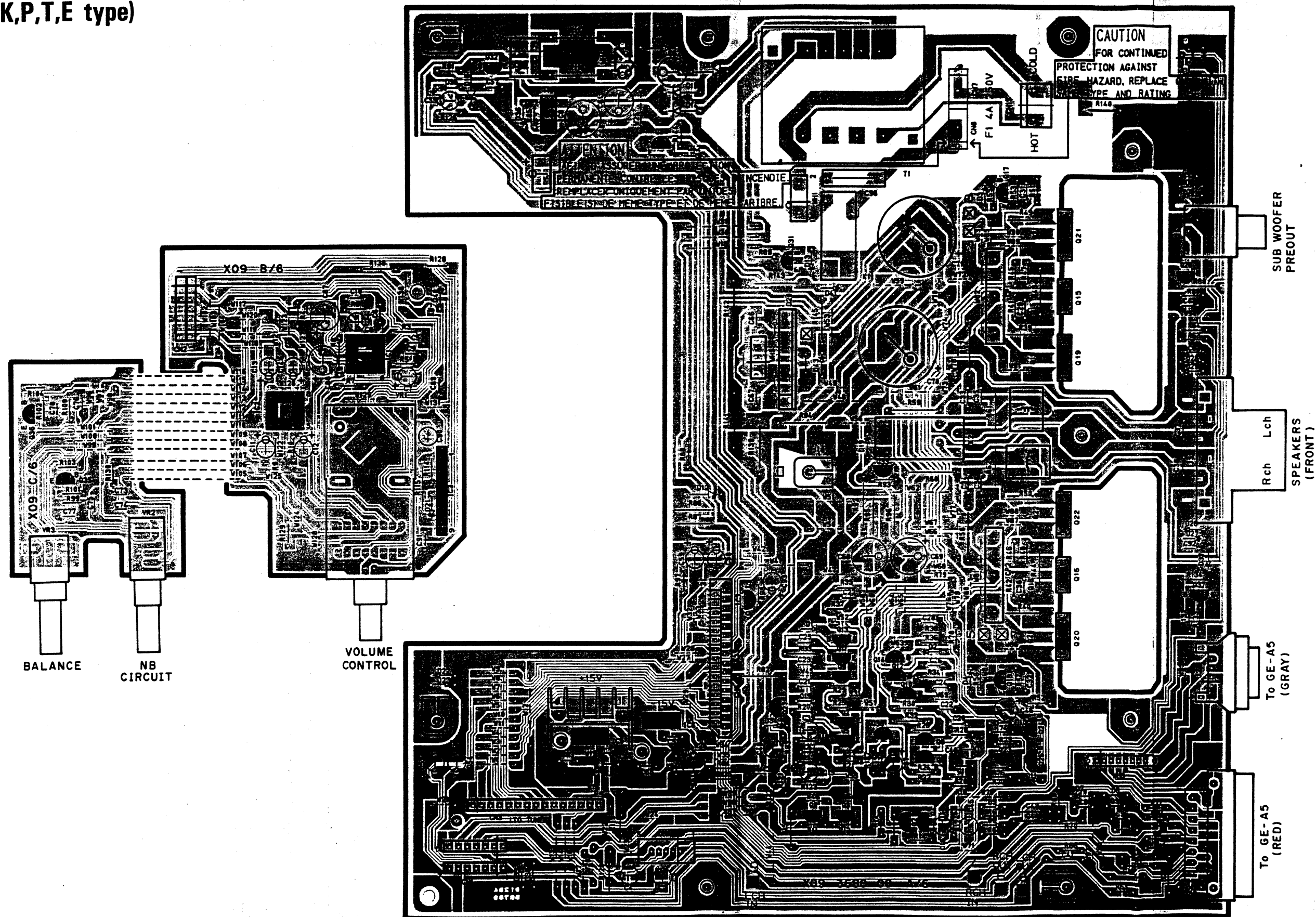
D

PC BOARD (Component side view)



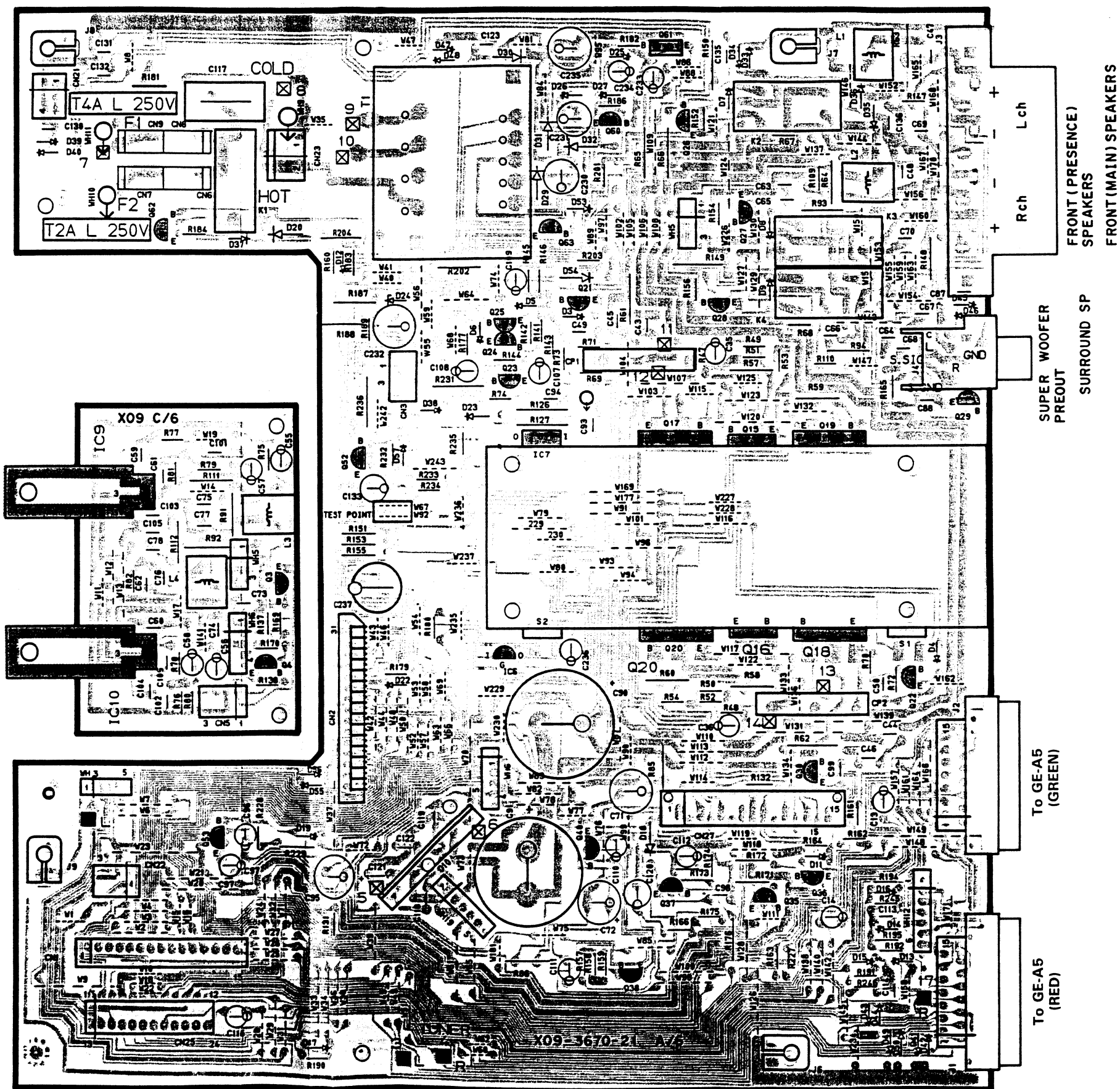
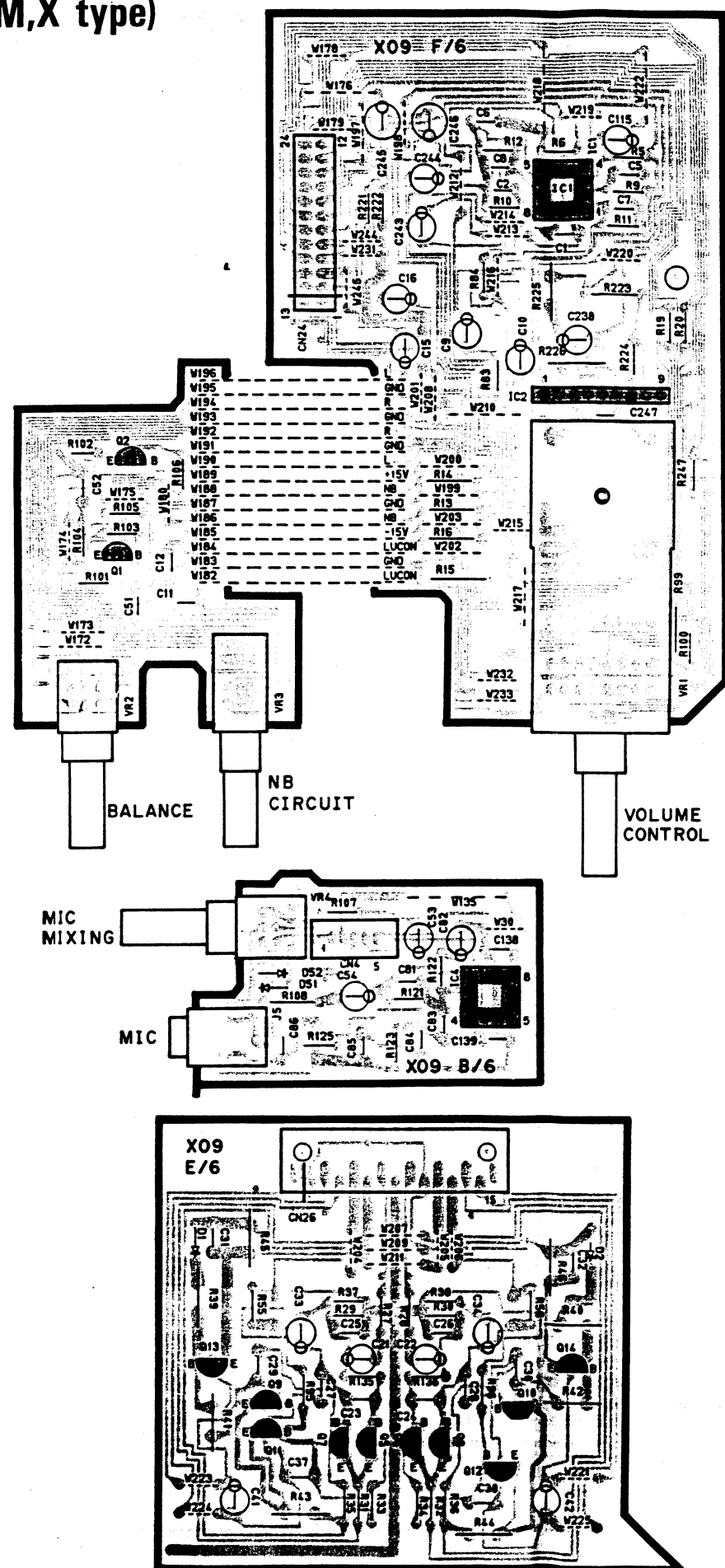
Refer to the schematic diagram for the values of registers and capacitors.

PC BOARD (Component side view)
(K,P,T,E type)

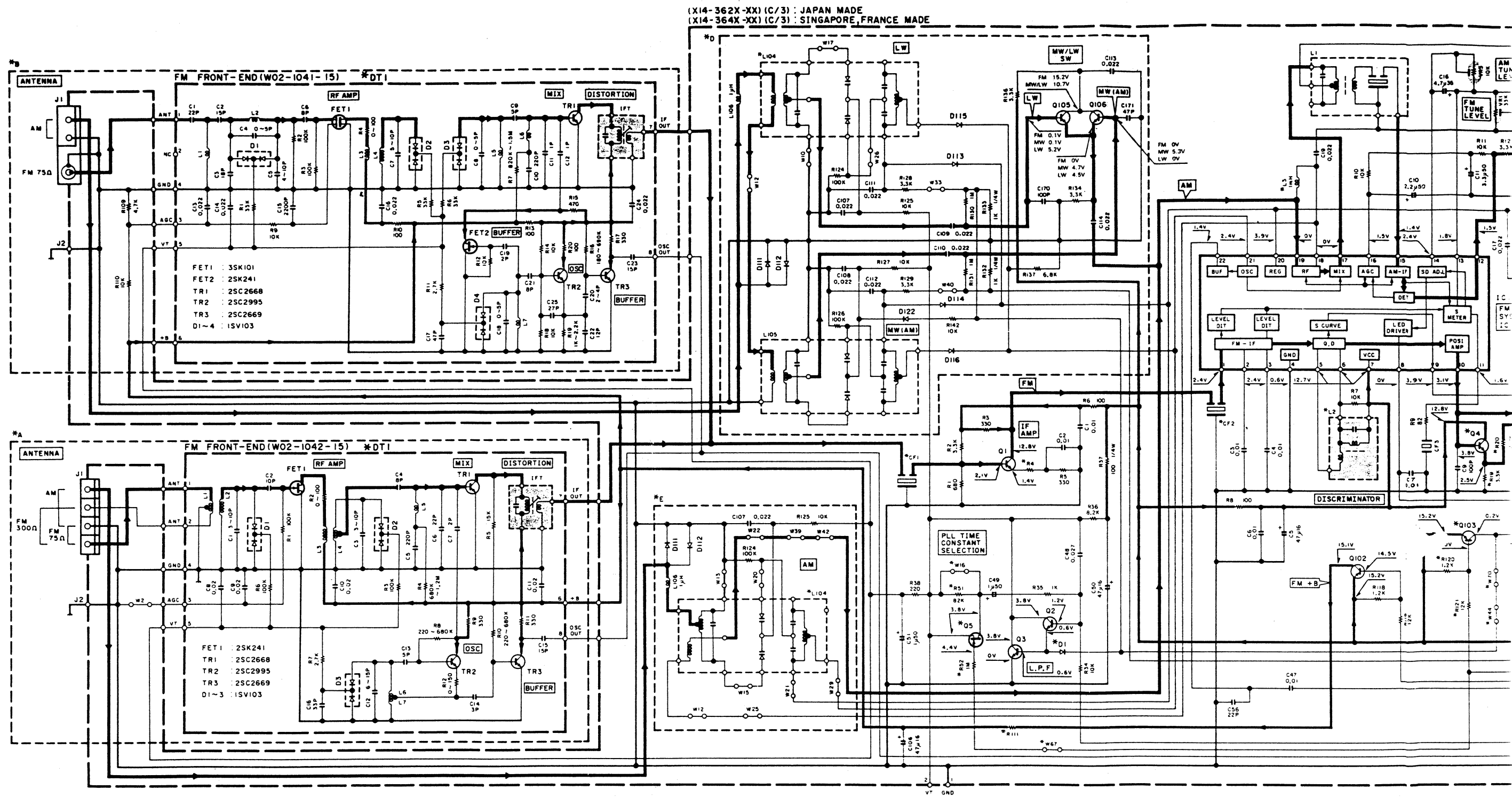


Refer to the schematic diagram for the values of registers and capacitors.

PC BOARD (Component side view)
(Y,M,X type)



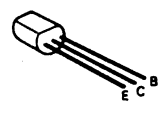
Refer to the schematic diagram for the values of registers and capacitors.



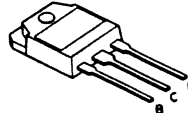
A-AS/ASL			DESTINATION		UNIT NAME		A	B	C	D	E	R4	R14	R17	R19,20	R46	R67	R11	C27	C67	Q4.5	D1.109	CF1.2	DT1	S101	L2	L3.5-7	L104	W16,22,62	W44	W98	
PRODUCT P	MODEL NAME	COUNTRY		ABB											50-52.54 120-121								(L72)	(W02)								
JAPAN MADE	A-AS	U.S.A	K	P	X14-3620-12	YES	NO	NO	NO	NO	YES	56	4.7K	15K	NO	12K	39K	100K	330	0.022	100P	NO	NO	0531	1042	NO	0439	NO	0189	YES	NO	NO
		CA	P	M	X14-3620-22	YES	NO	YES	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	0531	1042	YES	0494	NO	0189	YES	NO	YES	
		GENERAL MARKET			X14-3620-72	YES	NO	NO	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	0531	1042	NO	0494	NO	0189	YES	NO	NO	
		AUSTRALIA	X	X14-3620-72	YES	NO	NO	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	0531	1042	NO	0494	NO	0189	YES	NO	NO		
SINGAPORE MADE	A-ASL	EUROPE	T	E	X14-3642-72	NO	YES	NO	YES	NO	22	2.7K	12K	YES	27K	3.3K	180K	220	3900P	270P	YES	YES	0536	1041	NO	0494	YES	0195	NO	YES	NO	
		ENGLAND			X14-3642-11	YES	NO	NO	NO	YES	56	4.7K	15K	NO	12K	39K	100K	330	0.022	100P	NO	NO	0531	1042	NO	0439	NO	0189	YES	NO	NO	
		U.S.A	K	P	X14-3640-11	YES	NO	NO	NO	YES	56	4.7K	15K	NO	12K	39K	100K	330	0.022	100P	NO	NO	0531	1042	NO	0439	NO	0189	YES	NO	NO	
		GENERAL MARKET			X14-3640-22	YES	NO	YES	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	0531	1042	YES	0494	NO	0189	YES	NO	YES	
FRANCE MADE	A-ASL	AUSTRALIA	X	X	X14-3640-72	YES	NO	NO	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	0531	1042	NO	0494	NO	0189	YES	NO	NO	
		EUROPE	T	E	X14-3642-72	NO	YES	NO	YES	NO	22	2.7K	12K	YES	27K	3.3K	180K	220	3900P	270P	YES	YES	0536	1041	NO	0494	YES	0195	NO	YES	NO	
		ENGLAND			X14-3642-73	NO	YES	NO	YES	NO	22	2.7K	12K	YES	27K	3.3K	180K	220	3900P	270P	YES	YES	0536	1041	NO	0494	YES	0195	NO	YES	NO	
		EUROPE	T	E	X14-3642-73	NO	YES	NO	YES	NO	22	2.7K	12K	YES	27K	3.3K	180K	220	3900P	270P	YES	YES	0536	1041	NO	0494	YES	0195	NO	YES	NO	

JA101
JC501
2SA1123
2SA1534A
2SA954
2SA992

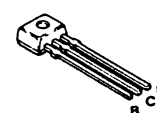
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2SC1923
2SC2003
2SC2878
2SD1302



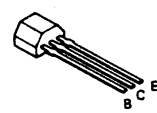
2SB1531
2SD2340



2SA1175
2SC2785



DTC124ES
2SA1048
2SA933S
2SC1740S
2SC2468



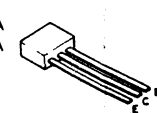
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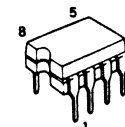
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UN4212
2SA1309A
2SC3311A



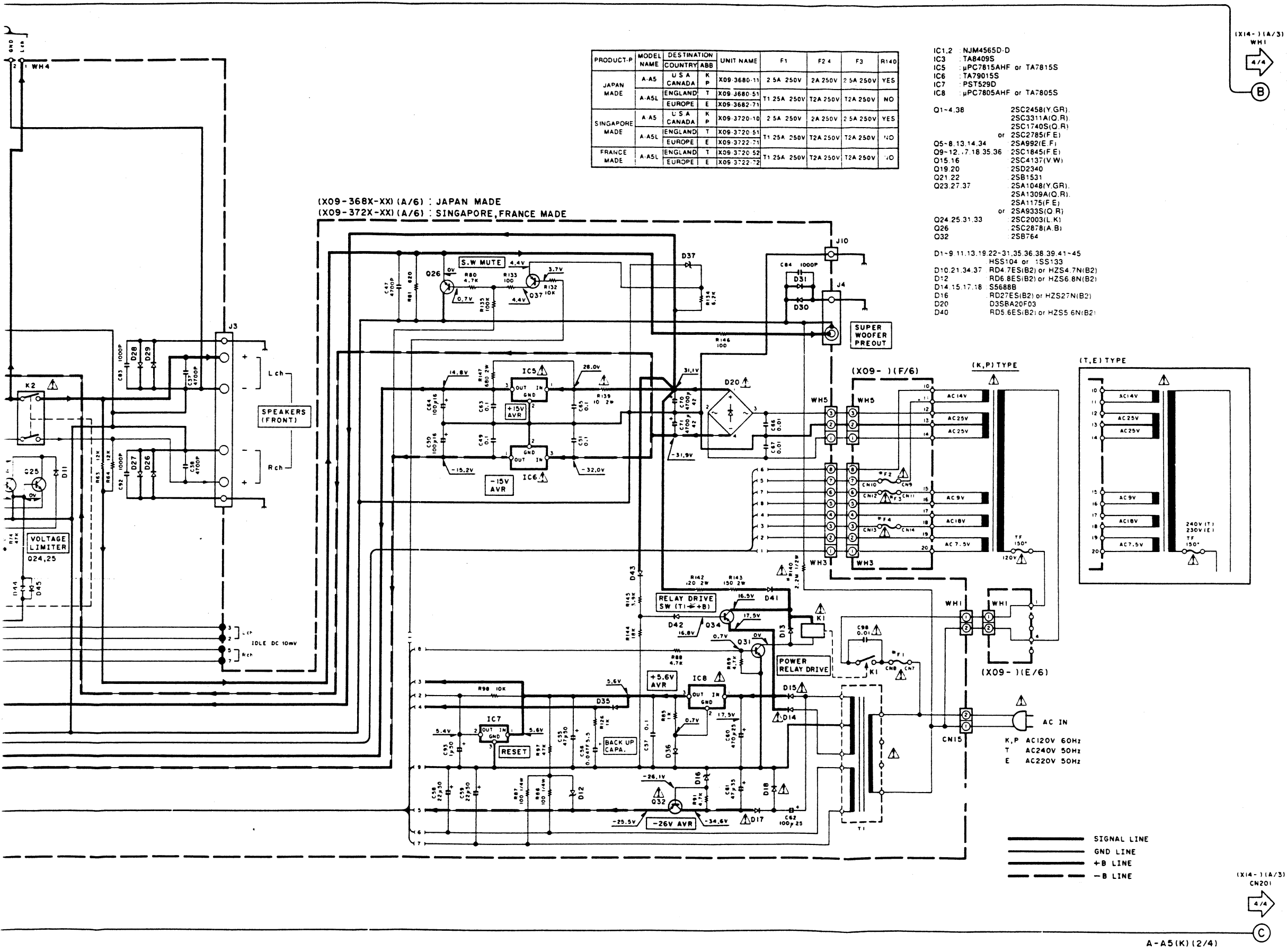
NJM4565D-D



2SC4038



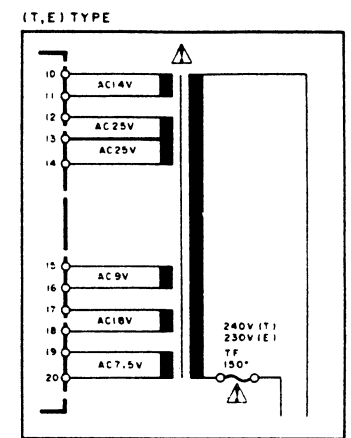
LM7001



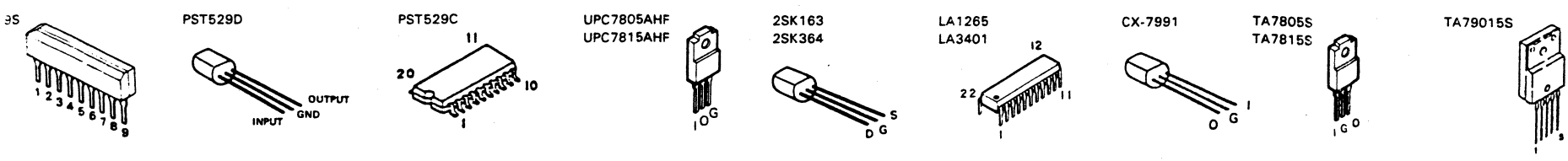
PRODUCT	MODEL	DESTINATION	UNIT NAME	F1	F2	F3	R140
JAPAN MADE	A-A5	U.S.A. CANADA	K P	X09-3680-11	2 5A 250V	2A 250V	2 5A 250V
	A-A5L	ENGLAND	T	X09-3680-51	T1 25A 250V	T2A 250V	T2A 250V
		EUROPE	E	X09-3682-71			
SINGAPORE MADE	A-A5	U.S.A. CANADA	K P	X09-3720-10	2 5A 250V	2A 250V	2 5A 250V
	A-A5L	ENGLAND	T	X09-3720-51	T1 25A 250V	T2A 250V	T2A 250V
		EUROPE	E	X09-3722-71			
FRANCE MADE	A-A5L	ENGLAND	T	X09-3720-52	T1 25A 250V	T2A 250V	T2A 250V
	A-A5L	EUROPE	E	X09-3722-72			


- IC1,2 NJM4558D-D
IC3 TA8409S
IC5 μ PC7815AHF or TA7815S
IC6 TA78015S
IC7 PST529D
IC8 μ PC7805AHF or TA7805S
- Q1-4,38 2SC2458(Y.G.R.)
2SC3311A(Q.R.)
2SC1740S(Q.R.)
2SC2785(F.E.)
2SA992(E.F.)
Q5-8,13,14,34 2SC1845(F.E.)
Q9-12,17,18,35,36 2SC4137(V.W.)
Q15,16 2SD2340
Q19,20 2SB1531
Q21,22 2SA1048(Y.G.R.)
Q23,27,37 2SA1309A(Q.R.)
2SA1175(F.E.)
2SA933S(Q.R.)
Q24,25,31,33 2SC2003(L.K.)
Q26 2SC2878(A.B.)
Q32 2SB764
- D1-9,11,13,19,22-31,35,36,38,39,41-45 HSS104 or 1SS133
D10,21,34,37 RD4 7ES(B2) or HZS4.7N(B2)
D12 RD6 8ES(B2) or HZS6.8N(B2)
D14,15,17,18 S5688B
D16 RD27ES(B2) or HZS27N(B2)
D20 D3SBA20F03
D40 RD5 6ES(B2) or HZS5 6N(B2)

(X09-368X-XX) (A/6) : JAPAN MADE
(X09-372X-XX) (A/6) : SINGAPORE, FRANCE MADE



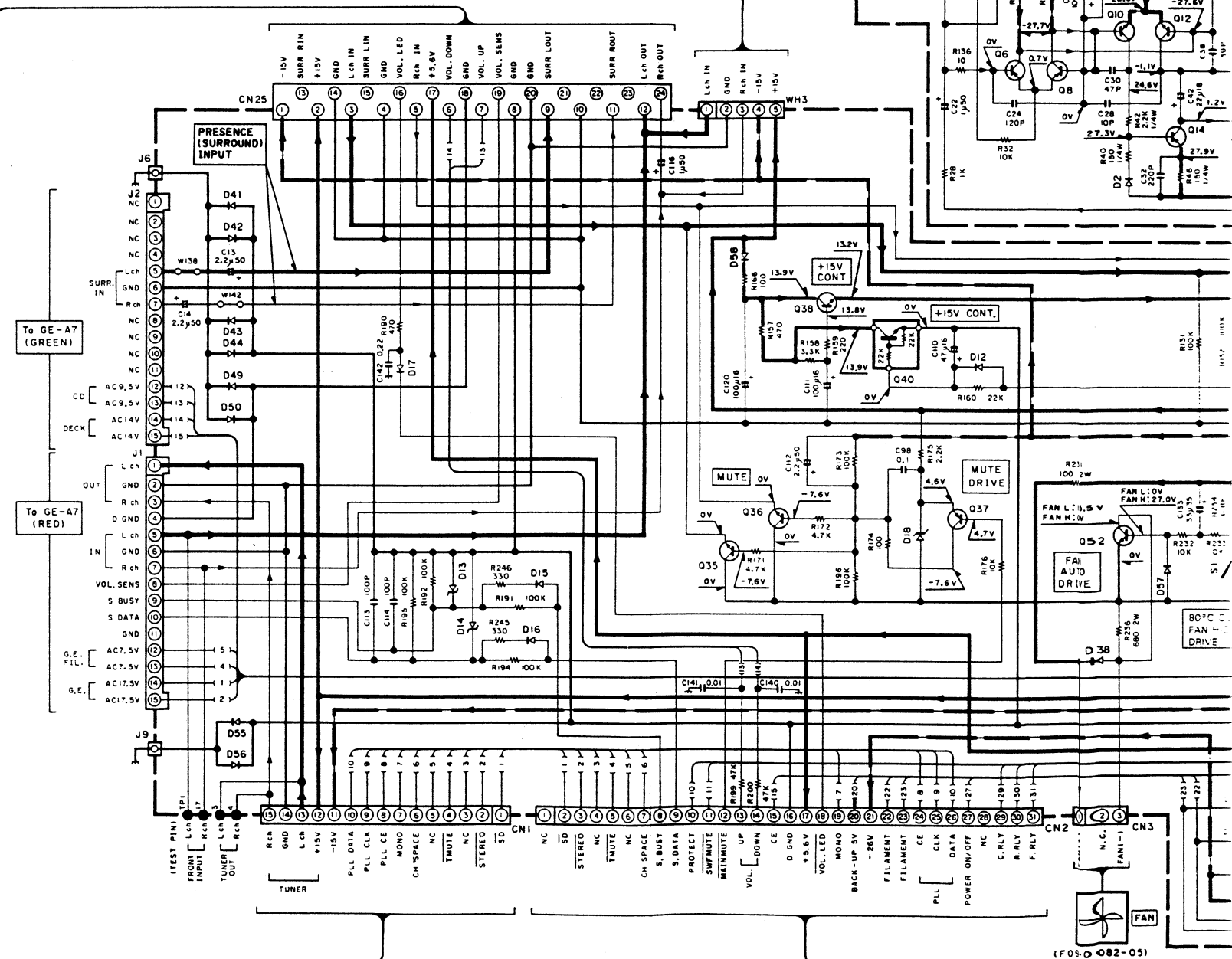
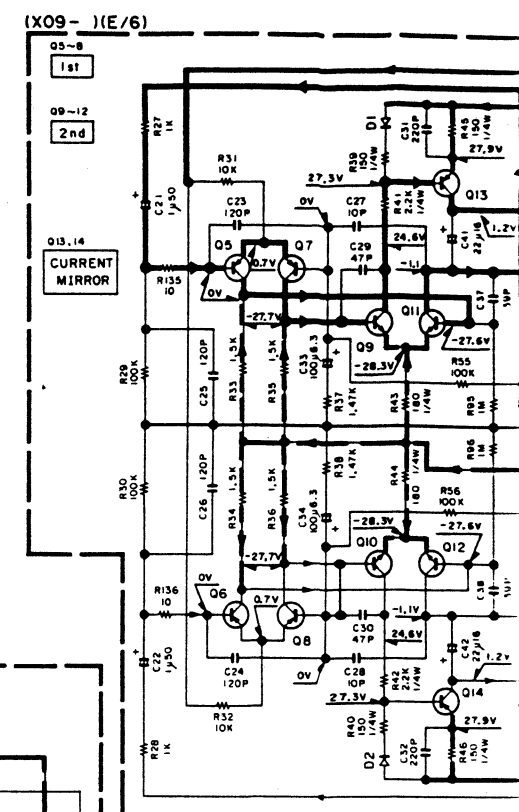
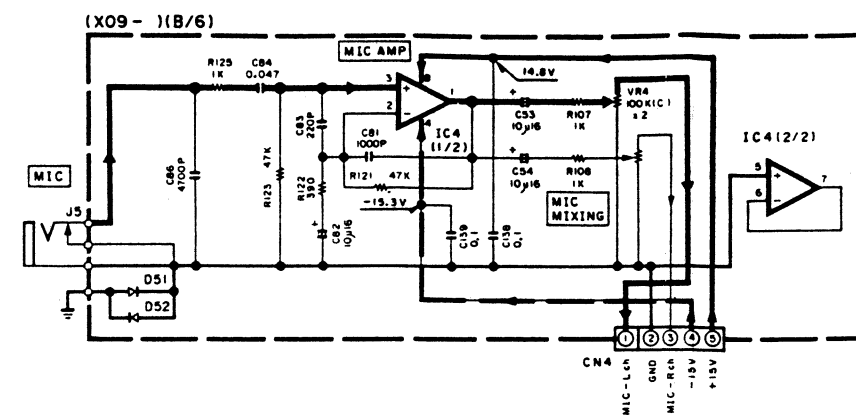
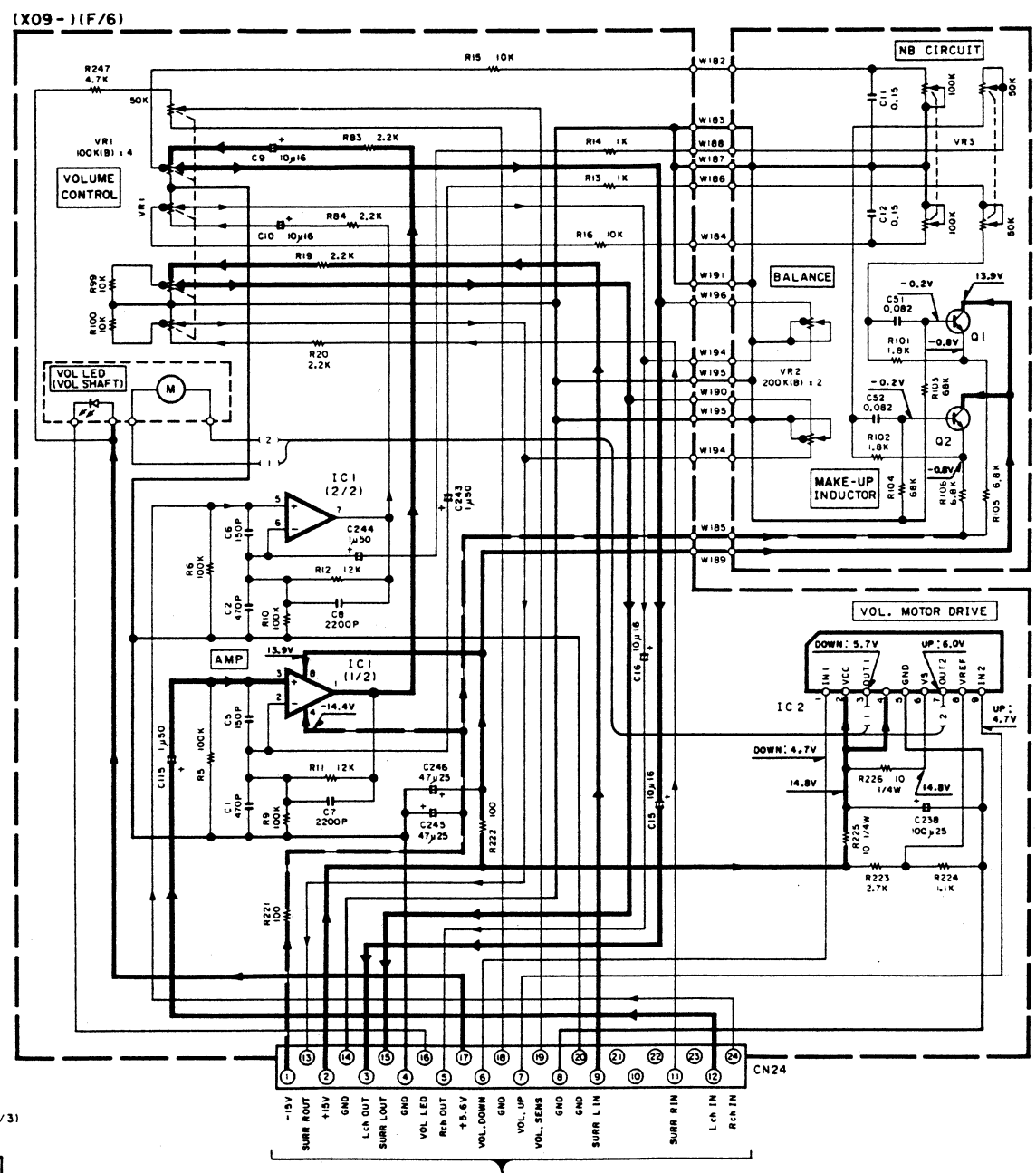
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

IC1,4	: NJM4555D-D	Q40	: DTC124ES or UN4212
IC2	: TA8405S	or	RN1203
IC6	: PST529C	Q53	: 2SA954(L,K)
IC7	: TA7815S or μ PC7815AHF	Q60	: 2SA1534A(R,S)
		Q61	: 2SD2061(E,F,G)
Q1,2,9-12,21,22,24,25	: 2SC1845(F,E)	D1-5,7,12,15-17,22,23,33-44,47-58	: HSS104A or 1SS131
Q5-8,13,14,63	: 2SA992(F,E)	D6,11,18	: HZS4.7N(B) or RD4.7ES(B)
Q15,16	: 2SC4137(V,W)	D10	: D5SBA20F03 or RBV-602LFA
Q17,18	: 2SD2340	D13,14	: HZS5.6N(B2) or RD5.6ES(B2)
Q19,20	: 2SB1531	D19	: HZS16N(B2) or RD16ES(B2)
Q23	: 2SA1123(R,S)	D20,29-32	: S5688B or 1SR139-100
Q26,52,62	: 2SC2003(L,K)	D24	: HZS6.8N(B2) or RD6.8ES(B2)
Q29,35,36	: 2SC2878(B)	D25	: HZS6.2N(B2) or RD6.2ES(B2)
Q30,37	: 2SA933S(Q,R) or 2SA1175(F,E)	D26	: HZS11N(B2) or RD11ES(B2)
	or 2SA1309A(Q,R)	D27	: HZS16N or RD16ES(B2)
	or 2SA1048(Y,G,R)		
Q38	: 2SC1740S(Q,R)		
	or 2SC2785(F,E)		
	or 2SC2458(Y,G,R)		
	or 2SC3311A(Q,R)		



(X14-1)(C/3)
CN1
1/4
A

JA101
JC501
2SA1123
2SA1534A
2SA954
2SA992

2SB764
2SC1845
2SC1923
2SC2003
2SC2878
2SD1302

2SB1531
2SD2340

2SA1175
2SC2785

DTC124ES
2SA1048
2SA933S
2SC1740S
2SC2458

2SC4137

2SD2061

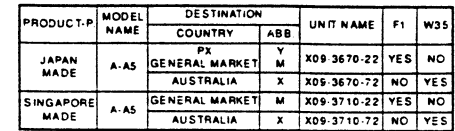
UN4212
2SA1309A
2SC3311A

2SC4038

NJM4555D-D

LM7001

TA84C

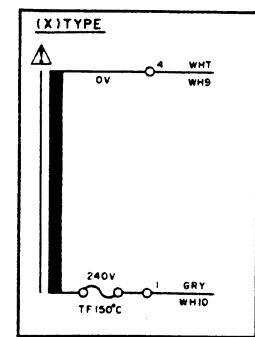


	MODE	SPEAKER OUTPUT FRONT (MAIN)
	S PRELAY Re! No.	K2
	USED HEADPHONES	NO
GE	PRESENCE OFF	YES
	F (FRONT) 4ch	YES
	S (SURROUND) 4ch	YES

(X14-) (A/3)

4/4

_____ SIGNAL LINE
 _____ GND LINE
 _____ +B LINE
 _____ -B LINE



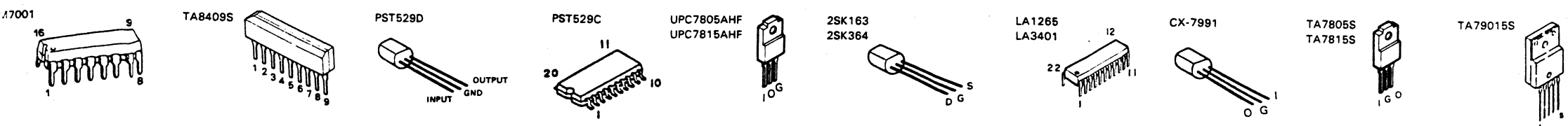
(X14-)(A/3)

A-A5(M)(3/4)

(Y,M,X type)

A-A5/A5L

KENWOOD



BF

BG

BH

BI

BJ

BK

BL

BM

BN

BO

<K,P,T,E type>
(X09-11A/6)
CN6



<Y,M,X type>
(X09-11A/6)
CN2



<Y,M,X type>

(X14-362X-XX)(A/3): JAPAN MADE
(X14-364X-XX)(A/3): SINGAPORE, FRANCE MADE

— GND LINE
— +B LINE
— -B LINE

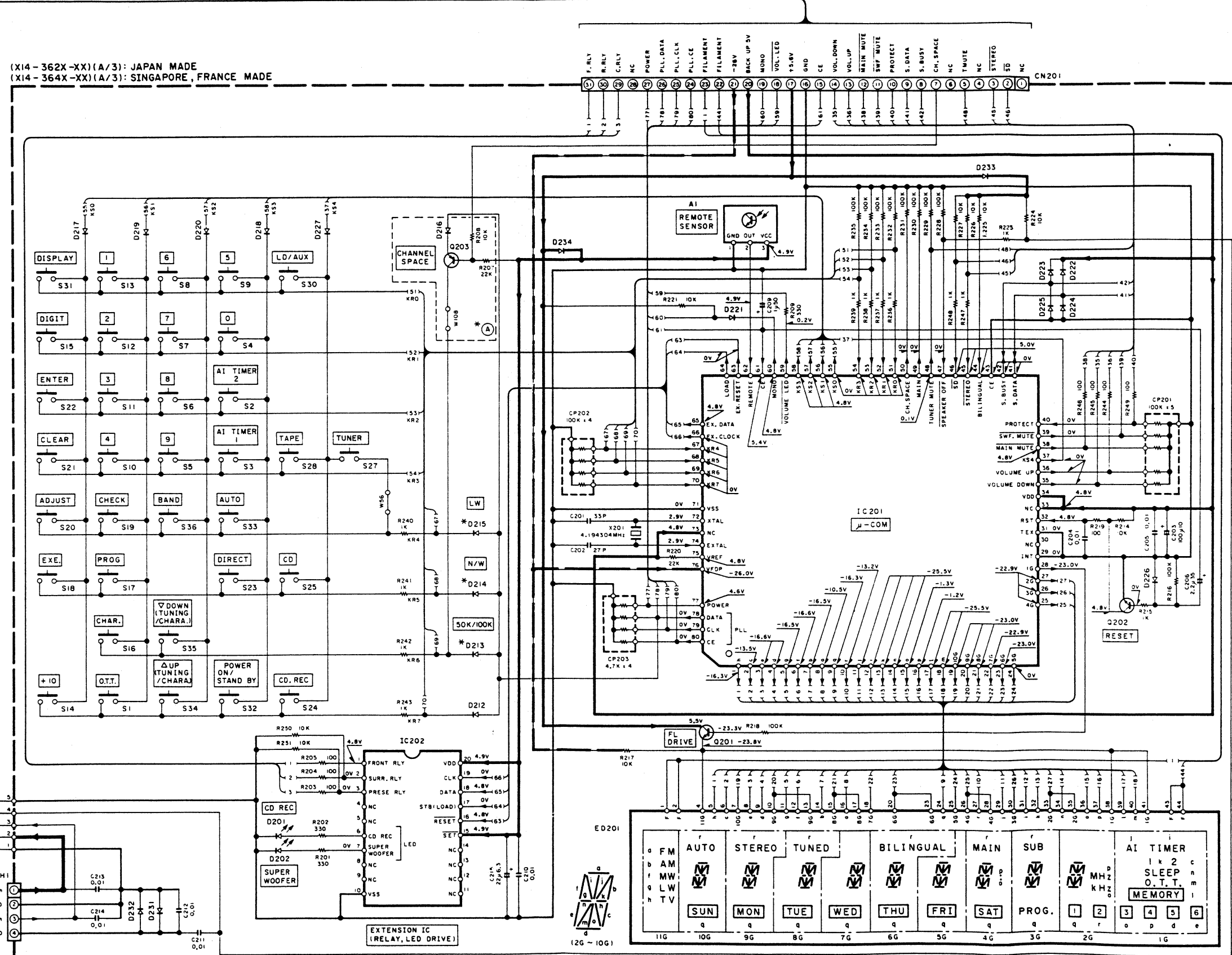
<K,P,T,E type>

(X09-11A/6)
CN5



(X09-11A/6)
CN21

<Y,M,X type>



PRODUCT-P	MODEL NAME	DESTINATION		U
		COUNTRY	ABB	
JAPAN MADE	A-A5	U.S.A	K	X
		CANADA	P	X
	A-ASL	EUROPE	T	X
		ENGLAND	E	X
SINGAPORE MADE	A-A5	U.S.A	K	X
		CANADA	P	X
	A-ASL	EUROPE	T	X
		ENGLAND	E	X
FRANCE MADE	A-A5	U.S.A	K	X
		CANADA	P	X
	A-ASL	EUROPE	T	X
		ENGLAND	E	X

IC201 : CX50116-397Q
or CX50116-397QA
IC202 : CX-1991

Q201,202 : 2SC1038(Q,R)
Q203 : 2SA1561(Q,R)

D201,202 : B301291-05
D212-227,231-234 : HSS104
or 1SS133
or 1N4148

A1 : W021046-05

ED201 : FIP11AM7R

A-A5(K)(4/4)

PRODUCT-P	MODEL NAME	DESTINATION		UNIT NAME	D213	D214	D215	(A)
		COUNTRY	ABB					
JAPAN MADE	A-A5	U.S.A	K	X14-3620-12	NO	NO	NO	NO
		CANADA	P					
		GENERAL MARKET	Y	X14-3620-22	NO	YES	NO	YES
		AUSTRALIA	X	X14-3620-72	YES	YES	NO	NO
SINGAPORE MADE	A-A5L	EUROPE	T	X14-3622-72	YES	YES	YES	NO
		ENGLAND	E					
		U.S.A	K	X14-3640-11	NO	NO	NO	NO
		CANADA	P					
	A-A5	GENERAL MARKET	M	X14-3640-22	NO	YES	NO	YES
		AUSTRALIA	X	X14-3640-72	YES	YES	NO	NO
		EUROPE	T	X14-3642-72	YES	YES	YES	NO
		ENGLAND	E					
FRANCE MADE	A-A5L	EUROPE	T	X14-3642-73	YES	YES	YES	NO
		ENGLAND	E					

IC201 : CXP50116-397Q
or CXP50116-397QA
IC202 : CX-7991

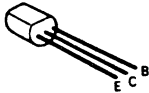
C201,202 : 2SC4038(Q,R)
C203 : 2SA1561(Q,R)

D201,202 : B30-1291-05
D212~227,231~234 : HSS104
or 1SS133
or 1N4148

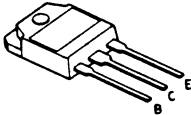
A1 : W02-1046-05

ED201 : FIP11AM7R

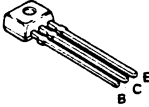
JA101
JC501
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2SA954
2SA992
2SB764
2SC1845
2SC1923
2SC2003
2SC2878
2SD1302



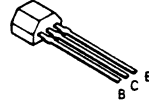
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2SD2340



2SA1175
2SC2785



DTC124ES
2SA1048
2SA933S
2SC1740S
2SC2458



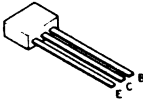
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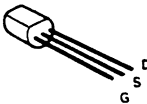
2SD2061



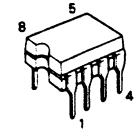
UN4212
2SA1309A
2SC3311A



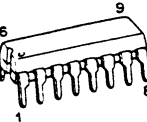
2SC4038



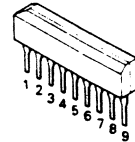
NJM4565D-D



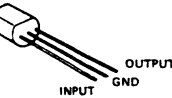
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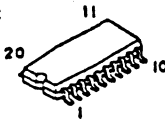
TA8409S



PST529D



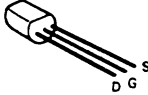
PST529C



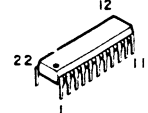
UPC7805AHF
UPC7815AHF



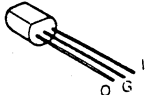
2SK163
2SK364



LA1265
LA3401



CX-7991




TA7805S
TA7815S



TA79015S

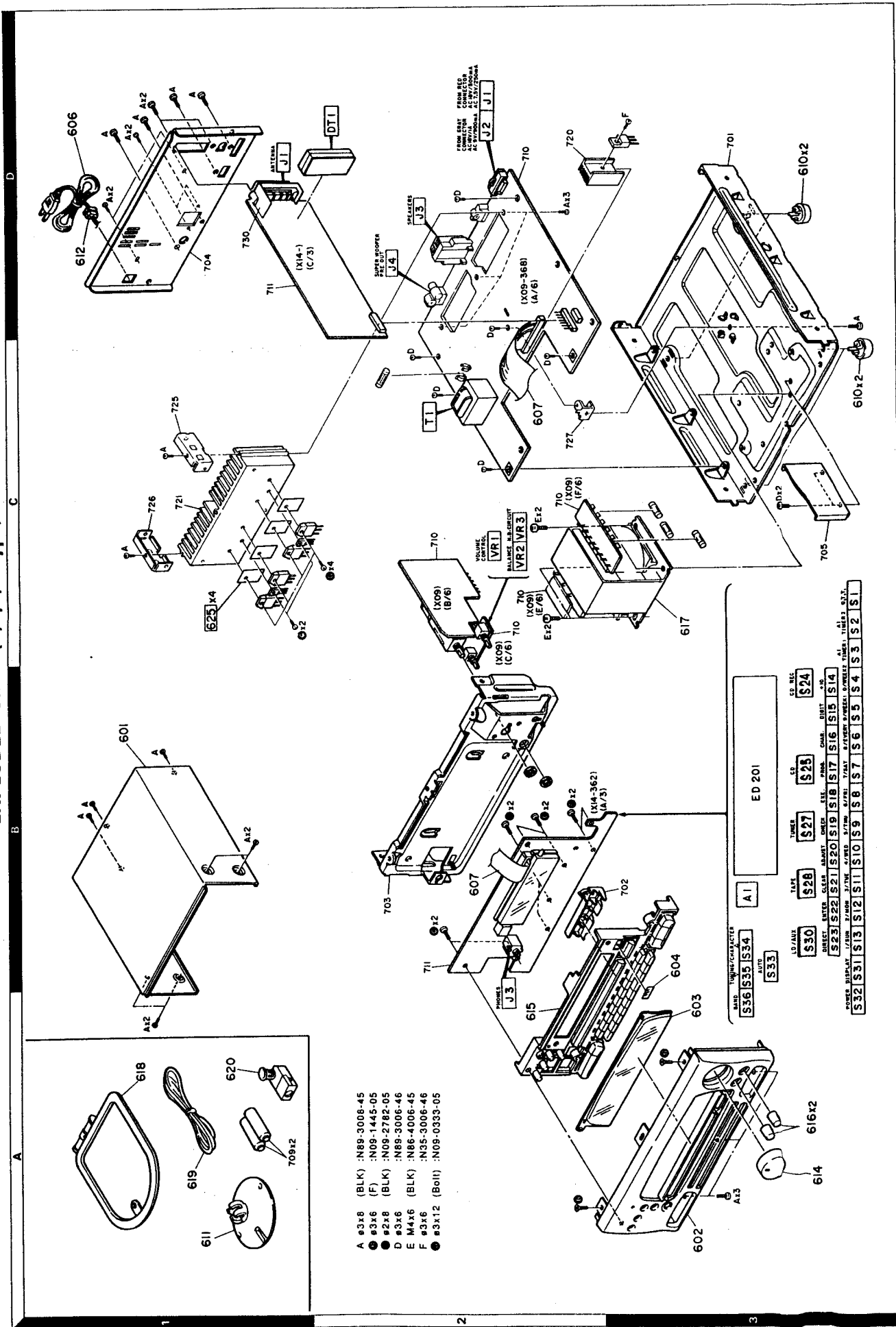


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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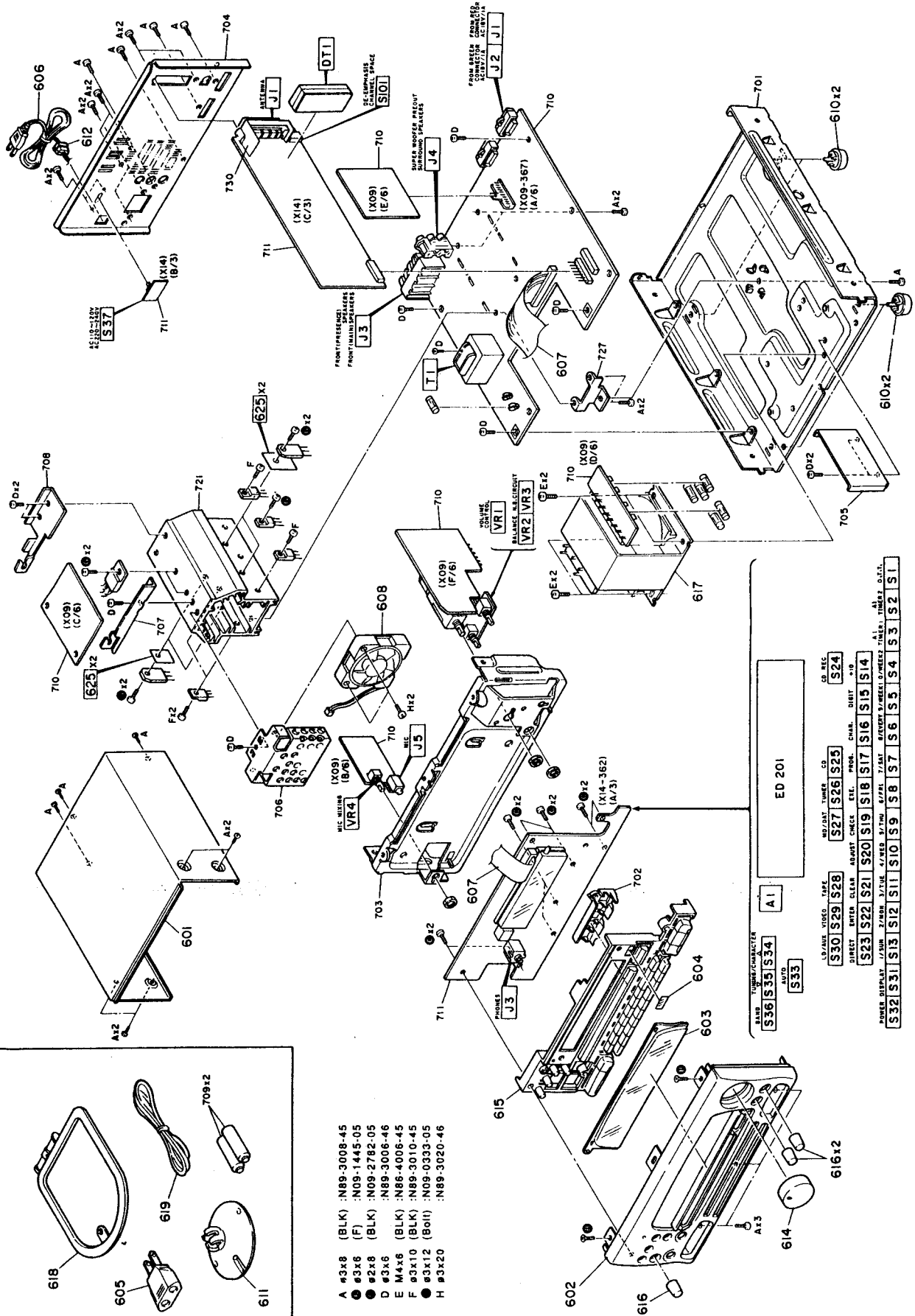
A-A5/A5L A-A5/A5L

EXPLODED VIEW (K,P,T,E type)



A-A5/A5L A-A5/A5L

EXPLODED VIEW (Y,M,X type)



52

Refer to the schematic diagram for the values of registers and capacitors.

A-A5/A5L

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位 置	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 仕 向	Re- marks 備 考
A-A5/A5L (K.P.T.E type): JAPAN MADE					
601	1B	* A01-2956-01	METALLIC CABINET	KP	
602	3A	* A60-0258-01	PANEL(A-A5)	TE	
602	3A	* A60-0259-01	PANEL(A-A5L)		
603	3A	* B10-1928-03	FRONT GLASS	K	
604	3B	* B11-0259-04	SMOKED FILTER	P	
-	-	B46-0092-13	WARRANTY CARD	E	
-	-	B46-0121-13	WARRANTY CARD		
-	-	B46-0122-23	WARRANTY CARD		
-	-	B46-0143-13	WARRANTY CARD	T	
-	-	* B60-0930-00	INSTRUCTION MANUAL(ENGLISH)	E	
-	-	* B60-0932-00	INSTRUCTION MANUAL(SPANISH)	PE	
-	-	* B60-0934-00	INSTRUCTION MANUAL(FRENCH)		
-	-	* B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E	
-	-	* B60-0936-00	INSTRUCTION MANUAL(DUTCH)	E	
-	-	* B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E	
△ 606	1D	E30-2592-15	AC POWER CORD	E	
△ 606	1D	E30-2593-15	AC POWER CORD	T	
△ 606	1D	E30-2650-05	AC POWER CORD	KP	
607	2B, 2C	* E35-0495-05	WIRING HARNESS		
-	-	H10-5300-02	POLYSTYRENE FOAMED FIXTURE(L)	KPE	
-	-	H10-5301-02	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	H10-5391-03	POLYSTYRENE FOAMED FIXTURE(F)		
-	-	H13-0039-04	CARTON BOARD		
-	-	H25-0632-24	PROTECTION BAG		
-	-	H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-	-	H25-0681-04	PROTECTION BAG		
-	-	* H50-0356-04	ITEM CARTON CASE(A-A5)	KP	
-	-	* H50-0357-04	ITEM CARTON CASE(A-A5L)	TE	
610	3D	J02-0370-05	F80T		
611	1A	J19-2815-04	ANTENNA HOLDER		
612	1D	J42-0083-05	POWER CORD BUSHING		
-	-	J61-0307-05	WIRE BAND		
614	3A	K29-4358-04	KN08 ASSY(VOLUME CONTROL)		
615	2A	K29-4426-01	KN08(POWER, DISPLAY etc.)		
616	3A	K29-4427-04	KN08(BALANCE, N.B.CIRCUIT)		
△ 617	3C	L07-0546-15	POWER TRANSFORMER	KP	
△ 617	3C	L07-0549-15	POWER TRANSFORMER	E	
△ 617	3C	L07-0570-15	POWER TRANSFORMER	T	
A	1B	N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	3A	N09-1445-05	SET SCREW (M3X8)		
C	2B	N09-2782-05	TAPTITE SCREW (2.6X8)		
D	3C	N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	2C	N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	2B	N35-3006-46	BINDING HEAD MACHINE SCREW		
G	2C	N09-0333-05	TAPPING SCREW (3X12)		
618	1A	T90-0173-05	LOOP ANTENNA(LAM)		
619	1A	T90-0176-05	T TYPE ANTENNA(LAM)		
620	1A	T90-0185-05	ANTENNA ADAPTOR	TE	

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A-A5/A5L (K,P,T,E type): SINGAPORE MADE				
601	1B	* A01-2966-01	METALLIC CABINET	S
602	3A	* A60-0258-01	PANEL(A-A5)	XP
602	3A	* A60-0259-01	PANEL(A-A5L)	TE
603	3A	* B10-1928-03	FRONT GLASS	X
604	3B	* B11-0259-04	SMOKED FILTER	P
-	-	* B46-0092-13	WARRANTY CARD	E
-	-	* B46-0121-13	WARRANTY CARD	E
-	-	* B46-0122-23	WARRANTY CARD	E
-	-	* B46-0143-13	WARRANTY CARD	T
-	-	* B60-0930-00	INSTRUCTION MANUAL(ENGLISH)	E
-	-	* B60-0932-00	INSTRUCTION MANUAL(SPANISH)	E
-	-	* B60-0934-00	INSTRUCTION MANUAL(FRENCH)	PE
-	-	* B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E
-	-	* B60-0936-00	INSTRUCTION MANUAL(DUTCH)	E
-	-	* B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E
606	1D	E30-2592-15	AC POWER CORD	E
606	1D	E30-2593-15	AC POWER CORD	E
607	2B, 2C	E35-0495-05	WIRING HARNESS	E
-	-	* H10-5324-02	POLYSTYRENE FOAMED FIXTURE(L)	TP
-	-	* H10-5325-02	POLYSTYRENE FOAMED FIXTURE(R)	KP
-	-	* H10-5390-03	POLYSTYRENE FOAMED FIXTURE(F)	S
-	-	* H13-0086-04	CARTON BOARD	S
-	-	* H25-0632-24	PROTECTION BAG	S
-	-	* H25-0644-04	PROTECTION BAG (0632 PRINTED)	T
-	-	* H25-0681-04	PROTECTION BAG	TE
-	-	* H50-0418-04	ITEM CARTON CASE(A-A5)	S
-	-	* H50-0420-04	ITEM CARTON CASE(A-A5L)	S
610	3D	J02-0370-05	FOOT	
611	1A	J19-2815-04	ANTENNA HOLDER	
612	1D	J42-0083-05	POWER CORD BUSHING	
-	-	* J61-0307-05	WIRE BAND	
614	3A	K29-4358-04	KNOB ASSY(VOLUME CONTROL)	
615	2A	K29-4426-01	KNOB(POWER DISPLAY ETC.)	
616	3A	* K29-4427-04	KNOB(BALANCE,N.B.CIRCUIT)	
617	3C	L07-0546-15	POWER TRANSFORMER	XP
617	3C	L07-0549-15	POWER TRANSFORMER	E
617	3C	L07-0570-15	POWER TRANSFORMER	T
A	1B	N89-3008-45	BINDING HEAD TAPITTE SCREW	
B	3A	N09-1445-05	SET SCREW (M3X8)	
C	2B	N09-2782-05	TAPITTE SCREW (2.6X8)	
D	3C	N89-3006-46	BINDING HEAD TAPITTE SCREW	
E	2C	N86-4006-45	BINDING HEAD TAPITTE SCREW	
F	2B	N35-3006-46	BINDING HEAD MACHINE SCREW	
G	2C	N09-0333-05	TAPPING SCREW (3X12)	
618	1A	T90-0174-05	LOOP ANTENNA(AM)	S
619	1A	T90-0175-05	T TYPE ANTENNA(FM)	
620	1A	T90-0185-05	ANTENNA ADAPTOR	TE

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A-A5L (T,E type): FRANCE MADE				
601	1B	* A01-2956-01	METALLIC CABINET	
602	3A	* A60-0259-01	PANEL(A-A5L)	E
603	3A	* B10-1928-03	FRONT GLASS	T
604	3B	* B11-0259-04	SMOKED FILTER	E
-	-	* B46-0122-23	WARRANTY CARD	E
-	-	* B46-0143-13	WARRANTY CARD	E
-	-	* B60-0930-00	INSTRUCTION MANUAL(ENGLISH)	E
-	-	* B60-0932-00	INSTRUCTION MANUAL(SPANISH)	E
-	-	* B60-0934-00	INSTRUCTION MANUAL(FRENCH)	E
-	-	* B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E
-	-	* B60-0936-00	INSTRUCTION MANUAL(DUTCH)	E
-	-	* B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E
606	1D	E30-2592-15	AC POWER CORD	E
606	1D	E30-2593-15	AC POWER CORD	E
607	2B, 2C	E35-0495-05	WIRING HARNESS	T
-	-	* H10-5326-02	POLYSTYRENE FOAMED FIXTURE(L)	E
-	-	* H10-5327-02	POLYSTYRENE FOAMED FIXTURE(R)	E
-	-	* H10-5389-03	POLYSTYRENE FOAMED FIXTURE(F)	E
-	-	* H13-0039-04	CARTON BOARD	E
-	-	* H25-0632-24	PROTECTION BAG	T
-	-	* H25-0644-04	PROTECTION BAG (0632 PRINTED)	
-	-	* H25-0681-04	PROTECTION BAG	
-	-	* H50-0421-04	ITEM CARTON CASE(A-A5L)	
610	3D	J02-0370-05	FOOT	
611	1A	J19-2815-04	ANTENNA HOLDER	
612	1D	J42-0083-05	POWER CORD BUSHING	
-	-	* J61-0307-05	WIRE BAND	
614	3A	K29-4358-04	KNOB ASSY(VOLUME CONTROL)	
615	2A	K29-4426-01	KNOB(POWER DISPLAY ETC.)	
616	3A	* K29-4427-04	KNOB(BALANCE,N.B.CIRCUIT)	
617	3C	L07-0549-15	POWER TRANSFORMER	E
617	3C	L07-0570-15	POWER TRANSFORMER	T
A	1B	N89-3008-45	BINDING HEAD TAPITTE SCREW	
B	3A	N09-1445-05	SET SCREW (M3X8)	
C	2B	N09-2782-05	TAPITTE SCREW (2.6X8)	
D	3C	N89-3006-46	BINDING HEAD TAPITTE SCREW	
E	2C	N86-4006-45	BINDING HEAD TAPITTE SCREW	
F	2B	N35-3006-46	BINDING HEAD MACHINE SCREW	
G	2C	N09-0333-05	TAPPING SCREW (3X12)	
618	1A	T90-0153-05	LOOP ANTENNA(AM)	S
619	1A	T90-0176-05	T TYPE ANTENNA(FM)	
620	1A	T90-0185-05	ANTENNA ADAPTOR	
A-A5 (Y,M,X type): JAPAN MADE				
601	1F	* A01-2956-01	METALLIC CABINET	
602	2E	* A60-0257-01	PANEL(A-A5)	
603	3E	* B10-1928-03	FRONT GLASS	
604	3F	* B11-0259-04	SMOKED FILTER	
-	-	* B46-0094-03	WARRANTY CARD	Y

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C45		C90-3258-05	ELECTRØ	100UF	50WV
C46		C504KW1A101M	ELECTRØ	100UF	10WV
C47		CF92FV1H472J	MF	4700PF	J
C48		C504HW1E330M	NP-ELEC	33UF	25WV
C49		CF92FV1H104J	MF	0.10UF	J
C50		C504KW1C101M	ELECTRØ	100UF	16WV
C51		CF92FV1H104J	MF	0.10UF	J
C52		C504KW1H101M	ELECTRØ	1.0UF	50WV
C53	.54	C504KW1H470M	ELECTRØ	47UF	50WV
C55		C90-1826-05	BACKUP	0.047F	5.5WV
C56					
C57		CF92FV1H104J	MF	0.10UF	J
C58	.59	C504KW1H220M	ELECTRØ	22UF	50WV
C60		C504KW1E472M	ELECTRØ	470UF	25WV
C61		C504KW1E330M	ELECTRØ	47UF	35WV
C62		C504KW1E101M	ELECTRØ	100UF	25WV
C63		CF92FV1H104J	MF	0.10UF	J
C64		C504KW1C101M	ELECTRØ	100UF	16WV
C65		CF92FV1H104J	MF	0.10UF	J
C66	.67	CF92FV1H103J	MF	0.010UF	J
C68	.69	C504KW1H221M	ELECTRØ	220UF	50WV
C70	.71				
C73	.74	C90-1966-05	ELECTRØ	4700UF	42WV
C75	.76	CF92FV1H154J	MF	0.15UF	J
C77	.78	C504HW1H010M	NP-ELEC	1.0UF	50WV
C83	.84	CF92FV1H105J	MF	1.0UF	J
C84		CK45FB1H102K	CERAMIC	1000PF	K
C87	.88				
C91		C90-3247-05	ELECTRØ	47UF	35WV
C92		CK45FF1H103Z	CERAMIC	0.010UF	Z
C93		CK45FF1H223Z	CERAMIC	0.022UF	Z
C94	.96	CK45FB1H102K	ELECTRØ	1000PF	K
C97		C504KW1C330M	ELECTRØ	33UF	16WV
C98		C91-1439-05	FILM	0.01UF	250VAC
J1	20	E08-1508-05	RECTANGULAR RECEPTACLE(RED)		TE
J2	20	E08-0411-05	RECTANGULAR RECEPTACLE(GRAY)		KP
J3	20	E20-0475-05	LOCK TERMINAL BOARD(SPEAKERS)		KP
J4	20	E13-0139-05	PHONE JACK(SUPER WOOFER)		TE
625	1C		INSULATING BOARD		
F1		F03-1224-05	FUSE (SEKKØ)	(250V T1.25A)	KP
F1		F03-1222-05	FUSE (UL)	(250V 2.5A)	KP
F2		F03-2323-05	FUSE (UL)	(250V 2.5A)	KP
F2		F06-2023-05	FUSE (SEKKØ)	(250V T2A)	TE
F3		F06-2021-05	FUSE (SEKKØ)	(250V T2A)	TE
F3		F06-2525-05	FUSE (UL)	(250V 2.5A)	KP
F4		F04-2025-05	FUSE (UL)	(250V 2A)	KP
F4		F06-2021-05	FUSE (SEKKØ)	(250V T2A)	TE
CN7	-14	J13-0075-05	FUSE CLIP		
L1	.2	L39-0085-05	PHASE COMPENSATION COIL		KP
T1	2C	L07-0332-05	POWER TRANSFORMER		T
T1	2C	L07-0333-05	POWER TRANSFORMER		E
T1	2C	L07-0334-05	POWER TRANSFORMER		E
CP1	.2	R90-0826-05	MULTI-COMP	0.22X2	J 5W
R39	.40	R014NB2E4R7J	RD	4.7	J 1/4W

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R49	.50	R014NB2E4R7J	RD	4.7	J 1/4W
R57	.58	RS14KB30100J	FL-PROOF RS	10	J 2W
R61	.62	R014NB2E100J	RD	10	J 1/4W
R86	.87	R014NB2E101J	RD	100	J 1/4W
R94		RS14KB30391J	FL-PROOF RS	390	J 2W
R95	.96	RD	100	J 1/4W	
R116	.117	RS14KB30391J	FL-PROOF RS	390	J 2W
R119	.120	RD	47	J 1/4W	
R139		RS14KB30100J	FL-PROOF RS	10	J 2W
R140		R92-0173-05	RC	2.2M	M 1/2W
R142		RS14KB30121J	FL-PROOF RS	120	J 2W
R143		RS14KB30151J	FL-PROOF RS	150	J 2W
R147		RS14KB30681J	FL-PROOF RS	680	J 2W
VR1	2C	R29-5073-05	POTENTIOMETER(VOLUME CONTROL)		
VR2	2C	R11-9023-05	POTENTIOMETER(BALANCE)		
VR3	2C	R05-5046-05	POTENTIOMETER(N.B.CIRCUIT)		
K1		S78-0009-05	MAGNETIC RELAY(POWER)		
K2		S78-0005-05	MAGNETIC RELAY(FRONT SPEAKERS)		
D1	-9	HSS104	DIODE		
D1	-9	ISS133	DIODE		
D10		HZ54.7N(B2)	ZENER DIODE		
D10		RD4.7ES(B2)	ZENER DIODE		
D11		HSS104	DIODE		
D11		ISS133	DIODE		
D12		HZ56.8N(B2)	ZENER DIODE		
D12		RD6.8ES(B2)	ZENER DIODE		
D13		HSS104	DIODE		
D13		ISS133	DIODE		
D14	.15	S5688B	DIODE		
D16		HZ527N(B2)	ZENER DIODE		
D16		RD27ES(B2)	ZENER DIODE		
D17	.18	S5688B	DIODE		
D19		HSS104	DIODE		
D19		ISS133	DIODE		
D20		D35B420F03	DIODE		
D21		HZ54.7N(B2)	ZENER DIODE		
D21		RD4.7ES(B2)	ZENER DIODE		
D22	-31	HSS104	DIODE		
D22	-31	ISS133	DIODE		
D34		HZ54.7N(B2)	ZENER DIODE		
D34		RD4.7ES(B2)	ZENER DIODE		
D35	.36	HSS104	DIODE		
D35	.36	ISS133	DIODE		
D37		HZ54.7N(B2)	ZENER DIODE		
D37		RD4.7ES(B2)	ZENER DIODE		
D38	.39	HSS104	DIODE		
D38	.39	ISS133	DIODE		
D40		HZ55.6N(B2)	ZENER DIODE		
D40		RD5.6ES(B2)	ZENER DIODE		
D41	-45	HSS104	DIODE		
D41	-45	ISS133	DIODE		
IC1	.2	NJM4565D-0	IC(OP AMP X2)		
IC3		TA8409S	IC(MOTOR CONTROL)		

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IC5		TA7815S	IC(VOLTAGE REGULATOR/ +15V)	
IC6		UPC7815AHF	IC(VOLTAGE REGULATOR/ +15V)	
IC7		TA78015S	IC(VOLTAGE REGULATOR/ -15V)	
IC8		PST329D	IC(SYSTEM RESET)	
IC9		TA7805S	IC(VOLTAGE REGULATOR/ +5V)	
IC10		UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)	
Q1 -4		2SC1740S(Q,R)	TRANSISTOR	
Q1 -4		2SC2458(Y,GR)	TRANSISTOR	
Q1 -4		2SC2785(F,E)	TRANSISTOR	
Q1 -4		2SC3311A(Q,R)	TRANSISTOR	
Q5 -8		2SA992(E,F)	TRANSISTOR	
Q9 -12		2SC1845(F,E)	TRANSISTOR	
Q13 -14		2SA992(E,F)	TRANSISTOR	
Q15 -16		2SC4137(V,W)	TRANSISTOR	
Q17 -18		2SC1845(F,E)	TRANSISTOR	
Q19 -20		2SD2340	TRANSISTOR	
Q21 -22		2SB1531	TRANSISTOR	
Q23		2SA1048(Y,GR)	TRANSISTOR	
Q23		2SA1175(F,E)	TRANSISTOR	
Q23		2SA1309A(Q,R)	TRANSISTOR	
Q23		2SA933S(Q,R)	TRANSISTOR	
Q24 -25		2SC2003(L,K)	TRANSISTOR	
Q26		2SC2678(B)	TRANSISTOR	
Q27		2SA1048(Y,GR)	TRANSISTOR	
Q27		2SA1175(F,E)	TRANSISTOR	
Q27		2SA1309A(Q,R)	TRANSISTOR	
Q27		2SA1309A(Q,R)	TRANSISTOR	
Q27		2SA933S(Q,R)	TRANSISTOR	
Q27		2SC1845(F,E)	TRANSISTOR	
Q27		2SA1048(Y,GR)	TRANSISTOR	
Q27		2SA1175(F,E)	TRANSISTOR	
Q27		2SA1309A(Q,R)	TRANSISTOR	
Q27		2SA933S(Q,R)	TRANSISTOR	
Q27		2SC1740S(Q,R)	TRANSISTOR	
Q28		2SC2458(Y,GR)	TRANSISTOR	
Q28		2SC2785(F,E)	TRANSISTOR	
Q28		2SC3311A(Q,R)	TRANSISTOR	
AUDIO UNIT (Y,M,X type) X05-367 JAPAN MADE X05-371 SINGAPORE MADE				
C1 -2		CK45FB1H471K	CERAMIC 470PF K	
C5 -6		CK45FSL1H151J	CERAMIC 150PF J	
C7 -8		CF92FV1H221J	MF 2200PF J	
C9 -10		C90-3225-05	ELECTRO 10UF 16VW	
C11 -12		CF92FV1H154J	MF 0.15UF J	
C13 -14		CE04KW1H282M	ELECTRO 2.2UF 50VW	
C15 -16		C90-3225-05	ELECTRO 10UF 16VW	
C21 -22		CE04KW1H010M	ELECTRO 1.0UF 50VW	
C23 -26		CK45FSL1H121J	CERAMIC 120PF J	
C27 -28		CK45FSL1H100D	CERAMIC 10PF D	
C29 -30		CK45FSL1H470J	CERAMIC 47PF J	
C31 -32		CK45FSL1H221J	CERAMIC 220PF J	
C33 -34		C90-1845-05	ELECTRO 100UF 6.3VW	
C35 -36		CE04KW1V100M	ELECTRO 10UF 35VW	

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C37 -38		CC45FSL1H390J	CERAMIC 39PF J	
C41 -42		CE04KW1C220M	ELECTRO 22UF 16VW	
C43 -46		CF92FV1H471J	MF 0.047UF J	
C49 -50		CF92FV1H103J	MF 0.010UF J	
C51 -52		CF92FV1H233J	MF 0.082UF J	
C53 -54		CE04KW1C100M	ELECTRO 10UF 16VW	
C71		CE04KW1H470M	ELECTRO 47UF 50VW	
C72		CE04KW1H221M	ELECTRO 22UF 50VW	
C81		CF92FV1H102J	MF 1.000PF J	
C82		CE04KW1C100M	ELECTRO 10UF 16VW	
C83		CC45FSL1H221J	CERAMIC 220PF J	
C84		CF92FV1H473J	MF 0.047UF J	
C86		CF92FV1H472J	MF 4700PF J	
C90 -91		C90-1966-05	ELECTRO 4.2VW	
C93 -94		CF92FV1H104J	MF 0.100F J	
C95 -97		CE04KW1C101M	ELECTRO 100UF 16VW	
C98 -99		CF92FV1H104J	MF 0.100F J	
C107		CE04KW1H477M	ELECTRO 4.7UF 50VW	
C108		CE04KW1H010M	ELECTRO 1.0UF 50VW	
C109		CE04KW1A101M	ELECTRO 100UF 10VW	
C110		CE04KW1C470M	ELECTRO 47UF 16VW	
C111		CE04KW1C101M	ELECTRO 100UF 16VW	
C112		CE04KW1H2R2M	ELECTRO 2.2UF 50VW	
C113 -114		CC45FSL1H101J	CERAMIC 100PF J	
C115		C90-3253-05	ELECTRO 1UF 50VW	
C116		CE04KW1H010M	ELECTRO 1.0UF 50VW	
C117		C91-1439-05	FILM 0.01UF 250VAC	
C118 -119		CK45FSL1H03Z	CERAMIC 0.010UF Z	
C120		CE04KW1C101M	ELECTRO 100UF 16VW	
C121 -122		CK45FSL1H03Z	CERAMIC 0.010UF Z	
C133		CE04KW1V330M	ELECTRO 33UF 35VW	
C138 -139		CF92FV1H104J	MF 0.10UF J	
C140 -141		C91-0769-05	CERAMIC 0.01UF K	
C142		CF92FV1H224J	MF 0.22UF J	
C230		CE04KW1E101M	ELECTRO 1000UF 25VW	
C231 -232		CE04KW1V470M	ELECTRO 47UF 35VW	
C233 -234		CE04KW1V100M	ELECTRO 100UF 35VW	
C235		CE04KW1E471M	ELECTRO 470UF 25VW	
C236		CE04KW1H010M	ELECTRO 1.0UF 50VW	
C237		C90-1827-05	BACKUP 0.047F 5.5VW	
C238		C90-3239-05	ELECTRO 100UF 25VW	
C243 -244		C90-3253-05	ELECTRO 1UF 50VW	
C245 -246		C90-3237-05	ELECTRO 47UF 25VW	
J1	2H	E08-1508-05	RECTANGULAR RECEPTACLE(RED)	
J2	2H	E58-0001-05	RECTANGULAR RECEPTACLE(GREEN)	
J3	2G	E20-0459-05	LOCK TERMINAL BOARD(F.SP.)	
J4	2H	E63-0018-05	PHONE JACK(S.WOFFER, SURR.SP.)	
J5	2F	E11-0220-05	MINIATURE PHONE JACK(MIC)	
△ F1	1F, 1G	F20-1284-05	INSULATING BOARD	YM
△ F2		F05-4025-05	FUSE (SEHK0)	(250V T4A)
△ F3		F05-2021-05	FUSE (SEHK0)	(250V T2A)
△ F4		F05-4024-05	FUSE (SEHK0)	(250V T4A)
△ F5 -7		F06-2021-05	FUSE (SEHK0)	(250V T2A)
CN6 -7		J13-0075-05	FUSE CLIP	

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CN8 ,9 CN10-19		J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP	YM
L1 ,2 L11	2G 2G	L39-0085-05 L07-0333-05 L07-0335-05	PHASE COMPENSATION COIL POWER TRANSFORMER POWER TRANSFORMER	X YM
CP1 ,2 R37 ,38 R39 ,40 R41 ,42 R43 ,44		R90-0187-05 RN148A2C1471F RD14NB2E151J RD14NB2E222J RD14NB2E181J	MULTI-COMP 0.22K2 RN 1.47K RD 150 RD 2.2K RD 150	K SW F 1/6W F 1/6W J 1/4W J 1/4W
R45 ,46 R55 ,56 R57 ,58 R61 ,62 R63 ,64		RD14NB2E151J RD14NB2C1003F RD14NB2E4R7J RS14KB3D100J RD14NB2E4R7J	RD 150 RN 100K RD 4.7 FL-PROOF RS 10 RD 4.7	J 1/4W F 1/6W J 1/4W J 2W J 1/4W
R65 ,66 R85 R86 R150 R187,188		RS14KB3D561J RD14NB2E221J RD14NB2E101J RS14KB3D271J RD14NB2E221J	FL-PROOF RS 560 RD 220 RD 100 FL-PROOF RS 270 RD 220	J 2W J 1/4W J 1/4W J 2W J 1/4W
R202 R204 R225,226 R231		RS14KB3D121J RS14KB3D151J RD14NB2E100J R92-0513-05 RS14KB3D101J	FL-PROOF RS 120 FL-PROOF RS 150 RD 100 FUSE RESIST 10 FL-PROOF RS 100	J 2W J 2W J 2W G 1/4W J 2W
R236 VR1 VR2 VR3 VR4	2G 2G 2G 2F	RS14KB3D681J R29-9028-05 R10-5043-05 R11-9024-05 R10-5060-05	FL-PROOF RS 680 POTENTIOMETER(VOLUME CONTROL) POTENTIOMETER(BALANCE) POTENTIOMETER(N.B. CIRCUIT) POTENTIOMETER(MIC MIXING)	J 2W J 2W J 2W J 2W J 2W
K1 K2 S1 S2		S76-0002-05 S76-0005-05 S79-0006-05 S79-0007-05	MAGNETIC RELAY(POWER) MAGNETIC RELAY(FRONT SP.) SWITCH ASSY (80°C CUT FAN) SWITCH ASSY (105°C CUT PROTECT)	
D1 -5 D1 -5 D6 D6 D7		HSS104A HSS131 HSS131 HSS104A HSS104A	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	
D7 D10 D10 D11 D11		SSS131 SSSBAOF03 R8V-602JFA HSS104A HSS104A	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D12 D13 ,14 D13 ,14 D15 -17 D15 -17		HSS104A HSS131 HSS131 HSS104A HSS104A	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D18 D18 D19 D19		HSS131 HSS131 HSS131 HSS131	DIODE DIODE ZENER DIODE ZENER DIODE	

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D20 D20 D22 ,23 D22 ,23 D24		SS688B LSR139-100 HSS104A HSS131 HSS131	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	
D24 D25 D25 D26 D26		RD6.8ES(B2) HSS6.2N(B2) RD6.2ES(B2) HSS11N(B2) RD11ES(B2)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D27 D27 D29 -32 D29 -32 D33 -44		HSS16N(B2) RD16ES(B2) SS688B LSR139-100 HSS104A	ZENER DIODE ZENER DIODE DIODE DIODE DIODE	
D33 -44 D37 -58 D47 -58 D47 -58 TC1 TC2		SS131 HSS104A HSS131 HSS131 NJ445650-D TA8409S	DIODE DIODE DIODE DIODE IC(OP AMP X2) IC(MOTOR CONTROL)	
IC4 IC6 IC7 IC7 Q1 ,2 Q5 -8 Q9 -12 Q13 ,14 Q15 ,16 Q17 ,18		NJM45650-D PST529C TA7815S UPC7815AHF 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SC4137(V,W) 2SD2340	IC(OP AMP X2) IC(SYSTEM RESET) IC(VOLTAGE REGULATOR/ +15V) IC(VOLTAGE REGULATOR/ +15V) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q19 ,20 Q21 ,22 Q23 Q24 ,25 Q26		2SB1531 2SC1845(F,E) 2SA1123(R,S) 2SC1845(F,E) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q29 Q30 Q30 Q30 Q30		2SC2878(B) 2SA1048(Y,GR) 2SA1175(F,E) 2SA1309A(Q,R) 2SA9335(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q35 ,36 Q37 Q37 Q37 Q37		2SC2878(B) 2SA1048(Y,GR) 2SA1175(F,E) 2SA1309A(Q,R) 2SA9335(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q38 Q38 Q38 Q40 Q40		2SC1740S(Q,R) 2SC2458(Y,GR) 2SC2785(F,E) 2SC311A(Q,R) DTC124ES	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
Q52 Q53 Q60 Q61		UN4212 2SC2003(L,K) 2SA954(L,K) 2SA1334A(R,S) 2SD2061(E,F,G)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	

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962		2SC2003(L, K)	TRANSISTOR		
963		2SA992(F, E)	TRANSISTOR		
DISPLAY UNIT (All destination)					
D201, 202		B30-1291-05	LED	X14-382: JAPAN MADE X14-384: SINGAPORE FRANCE MADE	
C1 -4		CK45FF1H103Z	CERAMIC	0.010UF Z	
C5		CE04KW1C470M	ELECTR0	47UF 16WV	
C6 ,7		CK45FF1H103Z	CERAMIC	0.010UF Z	
C8		CE04KW1H47M	ELECTR0	0.47UF 50WV	
C9		CC45FSL1H101J	CERAMIC	100PF J	
C10		CE04KW1H2R2M	ELECTR0	2.2UF 50WV	
C11		CE04KW1H3R3M	ELECTR0	3.3UF 50WV	
C12		CK45FF1H103Z	CERAMIC	0.010UF Z	
C13		C92FM1H153J	MYLAR	0.015UF J	
C14 ,15		CK45FF1H223Z	CERAMIC	0.022UF Z	
C16		CE04KW1V4R7M	ELECTR0	4.7UF 35WV	
C17		CK45FF1H223Z	CERAMIC	0.022UF Z	
C18		CE04KW1V100M	ELECTR0	10UF 35WV	
C19		CK45FF1H223Z	CERAMIC	0.022UF Z	
C20		CE04KW1V100M	ELECTR0	10UF 35WV	
C21		C90-3230-05	ELECTR0	100UF 16WV	
C27 ,28		C92FM1H153J	MYLAR	0.015UF J	YMX
C27 ,28		C92FM1H223J	MYLAR	0.022UF J	KP
C27 ,28		C92FM1H392J	MYLAR	3900PF J	TE
C29 ,30		C90-3263-05	ELECTR0	1UF 50WV	
C41 ,42		CC45FCH1H220J	CERAMIC	22PF J	
C43 -45		CK45FB1H471K	CERAMIC	470PF K	
C46 ,47		CK45FF1H103Z	CERAMIC	0.010UF Z	
C48		C92FM1H273J	MYLAR	0.027UF J	
C49		CE04KW1H010M	ELECTR0	1.0UF 50WV	
C50		CE04KW1C470M	ELECTR0	47UF 16WV	
C51		CE04KW1H010M	ELECTR0	1.0UF 50WV	
C52		CE04KW1C470M	ELECTR0	47UF 10WV	
C55		CK45FF1H103Z	CERAMIC	0.010UF Z	
C56		CC45FSL1H220J	CERAMIC	22PF J	
C62 -64		C90-3253-05	ELECTR0	1UF 50WV	
C65		C90-3249-05	ELECTR0	0.22UF 50WV	
C66		C90-3244-05	ELECTR0	100UF 35WV	
C67 ,68		CC45FSL1H101J	CERAMIC	100PF J	KPYMX
C67 ,68		CC45FSL1H271J	CERAMIC	270PF J	TE
C69		CE04KW1V100M	ELECTR0	10UF 35WV	
C70		CC45FSL1H561J	CERAMIC	560PF J	
C71		C92FM1H103J	MYLAR	0.010UF J	
C106		CE04KW1C470M	ELECTR0	47UF 16WV	
C107		CK45FF1H223Z	CERAMIC	0.022UF Z	
C108		CK45FF1H223Z	CERAMIC	0.022UF Z	TE
C109,110		C91-0085-05	CERAMIC	0.022UF N	TE
C111-114		CK45FF1H223Z	CERAMIC	0.022UF Z	TE
C135,136		C92FM1H682J	MYLAR	6800PF J	YM
C170		CC45FSL1H101J	CERAMIC	100PF J	TE
C171		CC45FSL1H470J	CERAMIC	47PF J	TE
C202		CC45FCH1H220J	CERAMIC	22PF J	
C203		CC45FCH1H270J	CERAMIC	27PF J	
C204, 205		C91-0769-05	ELECTR0	100UF 10WV	
			CERAMIC	0.01UF K	

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A-A5/A5L

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Q102		25A1309A(Q,R)	TRANSISTOR	TE	S
Q103		25A933S(Q,R)	TRANSISTOR	TE	
Q103		JA101(P,Q)	TRANSISTOR	TE	
Q103		25A1048(Y,GR)	TRANSISTOR	TE	
Q103		25A1175(F,E)	TRANSISTOR	TE	
Q103		25A1309A(Q,R)	TRANSISTOR	TE	
Q103		25A933S(Q,R)	TRANSISTOR	TE	
Q104		JA101(P,Q)	TRANSISTOR	TE	
Q104		25A1048(Y,GR)	TRANSISTOR	TE	
Q104		25A1175(F,E)	TRANSISTOR	TE	
Q104		25A1309A(Q,R)	TRANSISTOR	TE	
Q104		25A933S(Q,R)	TRANSISTOR	TE	
Q105, 106		JC501(P,Q)	TRANSISTOR	TE	
Q105, 106		25C1740S(Q,R)	TRANSISTOR	TE	
Q105, 106		25C2458(Y,GR)	TRANSISTOR	TE	
Q105, 106		25C2785(F,E)	TRANSISTOR	TE	
Q105, 106		25C3311A(Q,R)	TRANSISTOR	TE	
Q107, 108		25C2458(Y,GR)	TRANSISTOR	YM	
Q107, 108		25C3311A(Q,R)	TRANSISTOR	YM	
Q109, 110		25D1302(S,T)	TRANSISTOR	YM	
Q111		JA101(P,Q)	TRANSISTOR	TE	
Q111		25A1048(Y,GR)	TRANSISTOR	TE	
Q111		25A1175(F,E)	TRANSISTOR	TE	
Q111		25A1309A(Q,R)	TRANSISTOR	TE	
Q111		25A933S(Q,R)	TRANSISTOR	TE	
Q201, 202		25C4038(Q,R)	TRANSISTOR	YM	
Q203		25A1561(Q,R)	TRANSISTOR	YM	
A1	3B, 3F	W02-1046-05	ELECTRIC CIRCUIT MODULE	TE	
DT1	2D, 2H	W02-1041-15	FM FRONT-END ASSY	KPYMX	
DT1	2D, 2H	W02-1042-15	FM FRONT-END ASSY	KPYMX	

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SPECIFICATIONS

< K, P type >

Receiver unit (A-A5)

Amplifier section

Rated power output

28 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion

Total harmonic distortion

..... 0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8 Ω)
 0.06 % (1 kHz, 1/2 Rated power, 8 Ω)

Signal to noise ratio

..... 95 dB (HF'66) / 80 dB (HF'78)

Input sensitivity / Impedance

LD / AUX IN 150 mV / 47 k Ω
 N.B. circuit (-30 dB Volume level)(max.) +15 dB

Output level / Impedance

SUPER WOOFER OUT 1.5 V / 3.6 k Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz
 Sensitivity (MONO at 75 Ω) 1.2 μ V / 12.8 dBf

Total harmonic distortion (at 1 kHz)

MONO 0.5 % (65 dBf input)
 STEREO 0.6 % (65 dBf input)

Signal to noise ratio (at 1 kHz)

MONO 80 dB (85 dBf input)
 STEREO 74 dB (85 dBf input)

Selectivity (\pm 400 kHz) 50 dB

Stereo separation (at 1 kHz) 40 dB

Frequency response 30 Hz ~ 15 kHz + 0.5 dB, -3 dB

AM Tuner section

Tuning frequency range

..... 530 kHz ~ 1,700 kHz

Usable sensitivity 10 μ V / (500 μ V / m)

Signal to noise ratio

(at 30 % mod. 1 mV input) 48 dB

[General]

Power consumption 120 W

Dimensions W: 270 mm (10-5/8")
 H: 120 mm (4-3/4")
 D: 332 mm (13-1/16")

Weight (Net) 6.5 kg (14.3 lb)

A-A5/A5L

SPECIFICATIONS

SPECIFICATIONS

<T,E type>

Amplifier section	
Rated power output (IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.	30 W + 30 W at 8 Ω
(DIN) 1 kHz at 8 Ω	30 W + 30 W
Total harmonic distortion	
... 0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8 Ω)	
... 0.06 % (1 kHz, 1/2 Rated power, 8 Ω)	
Signal to noise ratio	95 dB(HF/66) / 80 dB(HF/78)
Input sensitivity / Impedance	
LD / AUX IN	150 mV / 47 kΩ
N.B. circuit (– 30 dB Volume level)(max.)	+ 15 dB (at 60 Hz)
Output level / Impedance	
SUPER WOOFER OUT	1.5 V / 3.6 kΩ

Usable sensitivity	.....	10 μ V / 500 μ V / m	.....	48 dB
Signal to noise ratio (at 30% mod. 1 mV input)	.....		
LW Tuner section				
Tuning frequency range	.....	153 kHz - 281 kHz		
Usable sensitivity	.....	22 μ V		
Signal to noise ratio (at 30% mod. 1 mV input)	.....			45 dB
[General]				
Power consumption	.....	120 W		
Dimensions		W: 270 mm (10-5 / 8") H: 120 mm (4-3 / 4") D: 332 mm (13-1 / 16")		
Weight (Net)	.....	6.5 kg (14.3 lb)		

<Y,M,X type>

Amplifier section	
Rated power output (EIAJ 8 Ω)	35 W + 35 W
(IHF/66)	From 40 Hz to 20 kHz, 0.09 % T.H.D.
at 8 Ω	30 W + 30 W
(IEC / NF)	From 63 Hz to 12,500 Hz, 0.7 % T.H.D.
at 8 Ω	30 W + 30 W
Total harmonic distortion	
..... 0.09 % (40 Hz - 20 kHz, 1/2 Rated power, 8 Ω)	
..... 0.06 % (1 kHz, 1/2 Rated power, 8 Ω)	
Signal to noise ratio	
.....	95 dB(IHF/66) / 80 dB(IHF/78)
Input sensitivity / Impedance	
LD / AUX IN	150 mV / 47 k Ω
MIC	1.2 mV / 47 k Ω
N.B. circuit (-30 dB Volume level)(max.)	+15 dB (at 60 Hz)
Output level / Impedance	
SUPER WOOFER OUT	1.5 V / 3.6 k Ω

[General]	
Power consumption	120 W
Dimensions	W: 270 mm (10.5 / 8")
	H: 120 mm (4.3 / 4")
	D: 332 mm (13.1 / 16")
Weight (Net)	6.5 kg (14.3 lb)

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Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.